

[illegible]

```

      AAAAAA      EEEEEEEEE EEEEEEEEE DDDDDDDD MM MM AAAAAA      IIIIII
      AAAAAA      EEEEEEEEE EEEEEEEEE DDDDDDDD MM MM AAAAAA      IIIIII
AA      AA      EE      DD      DD      MMMM      MM      AA      AA      II
AA      AA      EE      DD      DD      MMMM      MM      AA      AA      II
AA      AA      EE      DD      DD      MM      MM      AA      AA      II
AA      AA      EE      DD      DD      MM      MM      AA      AA      II
AA      AA      EEEEEEEE DD      DD      MM      MM      AA      AA      II
AA      AA      EEEEEEEE DD      DD      MM      MM      AAAAAAAA      II
AAAAA      EE      DD      DD      MM      MM      AAAAAAAA      II
AAAAA      EE      DD      DD      MM      MM      AAAAAAAA      II
AA      AA      EE      DD      DD      MM      MM      AA      AA      II
AA      AA      EEEEEEEE DDDDDDDD MM      MM      AA      AA      IIIIII
AA      AA      EEEEEEEE DDDDDDDD MM      MM      AA      AA      IIIIII

```

```

LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL IIIIII SSSSSSSS
LLLLLLLLLL IIIIII SSSSSSSS

```



```
1 0001 0 MODULE AED$MAIN (
2 0002 0 LANGUAGE (BLISS32),
3 0003 0 IDENT = 'V04-000'
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1 ++
31 0031 1
32 0032 1 FACILITY: Miscellaneous utilities
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 This module contains the routines for processing the user's input and
37 0037 1 updating the object's ACL in the appropriate manner.
38 0038 1
39 0039 1 ENVIRONMENT:
40 0040 1
41 0041 1 VAX/VMS operating system, user mode utilities.
42 0042 1
43 0043 1 --
44 0044 1
45 0045 1
46 0046 1 AUTHOR: L. Mark Pilant CREATION DATE: 12-Nov-1982 9:50
47 0047 1
48 0048 1 MODIFIED BY:
49 0049 1
50 0050 1 V03-016 LMP0291 L. Mark Pilant, 31-Jul-1984 13:15
51 0051 1 Correct a bug that caused the editor to loop forever in the
52 0052 1 ACE after the one being deleted was more than one line.
53 0053 1
54 0054 1 V03-015 LMP0268 L. Mark Pilant, 28-Jun-1984 15:01
55 0055 1 Don't explicitly save the journal file on a QUIT.
56 0056 1
57 0057 1 V03-014 LMP0267 L. Mark Pilant, 28-Jun-1984 12:15
```



```

58      0058 1
59      0059 1
60      0060 1
61      0061 1
62      0062 1
63      0063 1
64      0064 1
65      0065 1
66      0066 1
67      0067 1
68      0068 1
69      0069 1
70      0070 1
71      0071 1
72      0072 1
73      0073 1
74      0074 1
75      0075 1
76      0076 1
77      0077 1
78      0078 1
79      0079 1
80      0080 1
81      0081 1
82      0082 1
83      0083 1
84      0084 1
85      0085 1
86      0086 1
87      0087 1
88      0088 1
89      0089 1
90      0090 1
91      0091 1
92      0092 1
93      0093 1
94      0094 1
95      0095 1
96      0096 1
97      0097 1
98      0098 1
99      0099 1
100     0100 1
101     0101 1
102     0102 1
103     0103 1
104     0104 1
105     0105 1
106     0106 1
107     0107 1
108     0108 1
109     0109 1
110     0110 1
111     0111 1

Add support for an ADVANCE FIELD key.

V03-013 LMP0250      L. Mark Pilant,      4-May-1984 15:42
Fix a bug introduced by LMP0238 that caused the wrong item
code to be used when updating ACLs.

V03-012 LMP0238      L. Mark Pilant,      19-Apr-1984 13:32
Use the size of the ACE for twiddling, when possible.

V03-011 LMP0230      L. Mark Pilant,      16-Apr-1984 9:25
Track changes made to the $CHANGE_ACL system service.

V03-010 LMP0213      L. Mark Pilant,      24-Mar-1984 12:23
Add support for locking and unlocking the object's ACL.

V03-009 LMP0193      L. Mark Pilant,      15-Feb-1984 9:59
Add support for additional editor actions: delete to EOL,
reset, and quit. Also move the actual ACL updating to the
session termination routine.

V03-008 LMP0172      L. Mark Pilant,      28-Nov-1983 12:11
Numerous bug fixes, support for VT2xx terminals, and a
session keystroke logger.

V03-007 LMP0161      L. Mark Pilant,      5-Oct-1983 10:36
Make sure that the modified ACE gets written out when
crossing ACE boundaries during a search operation.

V03-006 LMP0147      L. Mark Pilant,      29-Aug-1983 12:46
Fix a bug that caused the display to be incorrect when
un-deleting an ACE as the last line. Also fix a bug that
caused te display to be wrong when a ^U is given in the
middle of a line.

V03-005 LMP0138      L. Mark Pilant,      16-Aug-1983 13:23
Misc fixes to prompting mode input.

V03-004 LMP0103      L. Mark Pilant,      20-Apr-1983 11:23
Add support for HIDDEN ACEs. Also misc fixes to prompting.

V03-003 LMP0081      L. Mark Pilant,      16-Feb-1983 10:20
Correct some minor bugs with the string searching routines.

V03-002 LMP0076      L. Mark Pilant,      1-Feb-1983 13:07
Add support for a key definition file.

V03-001 LMP0074      L. Mark Pilant,      21-Jan-1983 16:54
Random fixes and support for RMS journaling ACE's.

**
LIBRARY 'SYSS$LIBRARY:LIB.L32';
LIBRARY 'SYSS$LIBRARY:TPAMAC.L32';
REQUIRE 'SRC$:ACLEDTDEF';
```



```
: 113      0564 1 FORWARD ROUTINE
: 114      0565 1      AED_PROCESSACL : NOVALUE,      ! Main processing routine
: 115      0566 1
: 116      0567 1 ! The following are routines called based upon the editor action desired.
: 117      0568 1
: 118      0569 1      ACT_RUB_CHR,
: 119      0570 1      ACT_RUB_WRD,
: 120      0571 1      ACT_RUB_BOL,
: 121      0572 1      ACT_DEL_CHR,
: 122      0573 1      ACT_DEL_WRD,
: 123      0574 1      ACT_DEL_EOL,
: 124      0575 1      ACT_DEL_ACE,
: 125      0576 1      ACT_UNDEL_CHR,
: 126      0577 1      ACT_UNDEL_WRD,
: 127      0578 1      ACT_UNDEL_LIN,
: 128      0579 1      ACT_UNDEL_ACE,
: 129      0580 1      ACT_MOVE_WRD,
: 130      0581 1      ACT_MOVE_ACE,
: 131      0582 1      ACT_MOVE_BOL,
: 132      0583 1      ACT_MOVE_EOL,
: 133      0584 1      ACT_UP,
: 134      0585 1      ACT_DOWN,
: 135      0586 1      ACT_RIGHT,
: 136      0587 1      ACT_LEFT,
: 137      0588 1      ACT_TOP,
: 138      0589 1      ACT_BOTTOM,
: 139      0590 1      ACT_FIND_STR,
: 140      0591 1      ACT_FIND_NXT,
: 141      0592 1      ACT_ADV_FIELD,
: 142      0593 1      ACT_SEL_FIELD,
: 143      0594 1      ACT_SEL_ITEM,
: 144      0595 1      ACT_HELP,
: 145      0596 1      ACT_REFRESH,
: 146      0597 1      ACT_ENTER,
: 147      0598 1      ACT_INSERT,
: 148      0599 1      ACT_EXIT,
: 149      0600 1
: 150      0601 1 ! The following are common ACE text manipulating routines.
: 151      0602 1
: 152      0603 1      FINISH_ACE      : NOVALUE;      ! Tie off the ACE
: 153      0604 1
: 154      0605 1 EXTERNAL ROUTINE
: 155      0606 1      AED_PUTOUTPUT,      ! General purpose output routine
: 156      0607 1      AED_GIVEHELP,      ! Interactive help routine
: 157      0608 1      AED_UPDATEACL,      ! Update file's ACL
: 158      0609 1      AED_SET_CURSOR,      ! Set cursor position
: 159      0610 1      AED_SELECTFIELD : NOVALUE,      ! Select next ACE field
: 160      0611 1      AED_SELECTITEM  : NOVALUE,      ! Select next ACE item
: 161      0612 1      AED_SETACETYPE  : NOVALUE,      ! Set ACE type text
: 162      0613 1      AED_COMPRESS   : NOVALUE,      ! Compress the display
: 163      0614 1      AED_POSITION   : NOVALUE,      ! Position to selected line
: 164      0615 1      AED_COPSEGMENT,      ! Copy segment to working storage
: 165      0616 1      AED_REPSEGMENT,      ! Replace with working storage segment
: 166      0617 1      AED_SEGSPLIT,      ! Split segment into two pieces
: 167      0618 1      AED_SEGCOMBINE,      ! Combine two line segments
: 168      0619 1      AED_DECODEKEY;      ! Key action decoder
: 169      0620 1
```



```
: 170      0621 1 ! Macros to make working with line segments easier.
: 171      0622 1
: 172      0623 1 MACRO
: 173      0624 1     BUFFER_CHAR = INPUT_BUFFER[.BUFFER_INDEX] %;
: 174      0625 1
: 175      0626 1 ! Storage used by all the routines in this module.
: 176      0627 1
: 177      0628 1 OWN
: 178      0629 1     BUFFER_INDEX,      : $BBLOCK [DSC$C_S_BLN], ! Index into input storage
: 179      0630 1     ECHO_DESC          : ! Text echoing descr
: 180      0631 1     TEMP_LINE          : Temp copy of line number
: 181      0632 1     REMOVED_LINE       : REF $BBLOCK,      ! Address of line removed
: 182      0633 1     REMOVED_ACE       : REF $BBLOCK,      ! Address of ACE removed
: 183      0634 1     NEW_TEXT_LINE     : REF $BBLOCK,      ! Address of new line storage
: 184      0635 1     CHAR_PROCESSED,    : Chars checked by ACL parser
: 185      0636 1     APPEND_INDEX,      : Index for combining segments
: 186      0637 1     DUMMY_LINE        : REF $BBLOCK,      ! Temp line pointer
: 187      0638 1     TERM_CHAR         : VECTOR [1,BYTE],  ! Character/code input
: 188      0639 1     SEARCH_SIZE       : VECTOR [1,WORD],  ! Search string size
: 189      0640 1     SEARCH_STRING     : VECTOR [512,BYTE]; ! Search string buffer
: 190      0641 1
: 191      0642 1 BIND
: 192      0643 1     SEGMENT_SIZE      = AED_T_CURLINE[LINE_W_SIZE] : WORD,
: 193      0644 1     ! Input line segment size
: 194      0645 1     INPUT_BUFFER      = AED_T_CURLINE[LINE_T_TEXT] : VECTOR [,BYTE];
: 195      0646 1     ! Input line segment text
```



```
197 0647 1 ZSBTTL 'AED_PROCESSACL - main processing loop'
198 0648 1 GLOBAL ROUTINE AED_PROCESSACL : NOVALUE =
199 0649 1
200 0650 1 ++
201 0651 1
202 0652 1 FUNCTIONAL DESCRIPTION:
203 0653 1
204 0654 1 This routine is the main processing loop for the ACL editor. It
205 0655 1 accepts the users input, which may be a new ACE or modifications
206 0656 1 to an existing ACE, and updates the in core ACL as appropriate.
207 0657 1
208 0658 1 CALLING SEQUENCE:
209 0659 1 AED_PROCESSACL ()
210 0660 1
211 0661 1 INPUT PARAMETERS:
212 0662 1 none
213 0663 1
214 0664 1 IMPLICIT INPUTS:
215 0665 1 AED_W_TERMIN: terminal input channel
216 0666 1 AED_Q_LINETABLE: input line text queue
217 0667 1 AED_L_CURACE: address of current ACE
218 0668 1
219 0669 1 OUTPUT PARAMETERS:
220 0670 1 none
221 0671 1
222 0672 1 IMPLICIT OUTPUTS:
223 0673 1 AED_L_FIRSTLINE: address of first line segment of ACE
224 0674 1 AED_L_LASTLINE: address of last line segment of ACE
225 0675 1
226 0676 1 ROUTINE VALUE:
227 0677 1 none
228 0678 1
229 0679 1 SIDE EFFECTS:
230 0680 1 The object's ACL is appropriately modified.
231 0681 1
232 0682 1 --
233 0683 1
234 0684 2 BEGIN
235 0685 2
236 0686 2 LABEL INPUT; ! User input loop
237 0687 2
238 0688 2
239 0689 2 LOCAL
240 0690 2 LOCAL_STATUS, ! Local routine exit status
241 0691 2 SPLIT_SEGMENT : REF $BBLOCK, ! Pointer to remaining text
242 0692 2 SPLIT_SIZE; ! Size of remaining text
243 0693 2
244 0694 2 ! Initialize all variables and flags.
245 0695 2
246 0696 2 CH$FILL (0, DSC$C_S_BLN, ECHO_DESC);
247 0697 2 CH$MOVE (DSC$C_S_BLN, ECHO_DESC, AED_Q_DEL_WORD);
248 0698 2 CH$MOVE (DSC$C_S_BLN, ECHO_DESC, AED_Q_DEL_LINE);
249 0699 2 AED_B_DEL_CHAR = 0;
250 0700 2 BUFFER_INDEX = 0;
251 0701 2
252 0702 2 ! Set up initial display variables.
253 0703 2
```



```
254 0704 2 AED_Q_DEL_ACE[LINE_L_FLINK] = AED_Q_DEL_ACE[LINE_L_FLINK];
255 0705 2 AED_Q_DEL_ACE[LINE_L_BLINK] = AED_Q_DEL_ACE[LINE_L_FLINK];
256 0706
257 0707 2 AED_L_FLAGS[AED_V_FIRSTCHAR] = 1;
258 0708
259 0709 2 AED_L_FLAGS[AED_V_ACERROR] = 1; ! Clear message area
260 0710
261 0711 2 ! If there is no ACL (the display is empty), set up to append the text
262 0712 2 ! entered. Otherwise, set up to modify the first segment of the display.
263 0713
264 0714 2 IF .AED_Q_LINETABLE[LINE_L_FLINK] EQLA AED_Q_LINETABLE[LINE_L_FLINK]
265 0715 2 THEN
266 0716 2 BEGIN
267 0717 2 AED_L_FLAGS[AED_V_ENDACL] = 1; ! At the end of the ACL
268 0718 2 AED_L_FLAGS[AED_V_INSERTTEXT] = 1;
269 0719 2 AED_W_TOTALSIZE = SEGMENT_SIZE = 0;
270 0720 2 INSQUE (AED_T_CURLINE[LINE_L_FLINK], .AED_Q_LINETABLE[LINE_L_BLINK]);
271 0721 2 AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
272 0722 2 AED_L_FIRSTLINE[LINE_Q_FLAGS] = LINE_M_BEGINACE;
273 0723 2 AED_L_CURACE = 0;
274 0724 2 IF .AED_L_FLAGS[AED_V_PROMPT]
275 0725 2 THEN
276 0726 2 BEGIN
277 0727 2 AED_B_ACETYPE = 0;
278 0728 2 AED_L_FLAGS[AED_V_NOITEMSEL] = 0;
279 0729 2 AED_SELECTFIELD (BUFFER_INDEX);
280 0730 2 ECHO_DESC[DSCSW_LENGTH] = .AED_T_CURLINE[LINE_W_SIZE];
281 0731 2 ECHO_DESC[DSCSA_POINTER] = AED_T_CURLINE[LINE_T_TEXT];
282 0732 2 SCR$SET CURSOR T.AED_B_LINE, 1;
283 0733 2 AED_PUTOUTPUT (ECHO_DESC);
284 0734 2 SCR$ERASE LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
285 0735 2 AED_B_COLUMN = .BUFFER_INDEX + 1;
286 0736 2 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
287 0737 2 END;
288 0738 2 END
289 0739 2 ELSE
290 0740 2 BEGIN
291 0741 2 AED_COPSEGMENT (.AED_Q_LINETABLE[LINE_L_FLINK]);
292 0742 2 INSQUE (AED_T_CURLINE[LINE_L_FLINK], AED_Q_LINETABLE[LINE_L_FLINK]);
293 0743 2 AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
294 0744 2 AED_W_TOTALSIZE = .AED_L_FIRSTLINE[LINE_Q_SIZE];
295 0745 2 UNTIL .AED_L_LASTLINE[LINE_V_ENDACE]
296 0746 2 DO
297 0747 2 BEGIN
298 0748 2 IF .AED_L_LASTLINE EQLA AED_T_CURLINE
299 0749 2 THEN AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
300 0750 2 AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
301 0751 2 AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_LASTLINE[LINE_W_SIZE];
302 0752 2 END;
303 0753 2 AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BEGINACE];
304 0754 2 IF .AED_L_FLAGS[AED_V_PROMPT]
305 0755 2 THEN
306 0756 2 BEGIN
307 0757 2 AED_L_FLAGS[AED_V_NOITEMSEL] = 1;
308 0758 2 AED_SELECTFIELD (BUFFER_INDEX);
309 0759 2 AED_B_COLUMN = .BUFFER_INDEX + 1;
310 0760 2 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
```



```
311 0761 3      END;  
312 0762 2      END;  
313 0763 2      AED_L_BEGINLINE = .AED_Q_LINETABLE[LINE_L_FLINK];  
314 0764 2  
315 0765 2      ! Loop getting characters from the user until an End-Of-File is seen.  When  
316 0766 2      ! an EOF is seen, it indicates the end of the session.  
317 0767 2  
318 0768 2      WHILE 1  
319 0769 2      DO  
320 0770 3          INPUT: BEGIN  
321 0771 3          TERM_CHAR = AED_DECODEKEY ();  
322 0772 3          IF .TERM_CHAR EOL 0 THEN RETURN;  
323 0773 3          IF .AED_L_FLAGS[AED_V_ACERROR] AND .AED_L_FLAGS[AED_V_SCOPE]  
324 0774 3          THEN  
325 0775 4              BEGIN  
326 0776 4                  SCRSEASE PAGE (21, 1);  
327 0777 4                  AED_SET_CURSOR (.AED_B_LINE, .BUFFER_INDEX + 1);  
328 0778 4                  AED_L_FLAGS[AED_V_ACERROR] = 0;  
329 0779 4              END;  
330 0780 3  
331 0781 3      ! Choose the appropriate action based upon the character typed.  
332 0782 3      WHILE .AED_L_FLAGS[AED_V_ACTIONKEY]  
333 0783 3      DO  
334 0784 4          BEGIN  
335 0785 4          CASE .TERM_CHAR FROM 1 TO KEY_C_MAX_CODE-1 OF  
336 0786 4          SET  
337 0787 4      ! Actions to delete text.  
338 0788 4          [KEY_C_RUB_CHR]:      ACT_RUB_CHR ();  
339 0789 4          [KEY_C_RUB_WRD]:  
340 0790 4              BEGIN  
341 0791 5                  LOCAL STATUS = ACT_RUB_WRD ();  
342 0792 5                  IF NOT .LOCAL_STATUS THEN RETURN;  
343 0793 5              END;  
344 0794 4          [KEY_C_RUB_BOL]:      ACT_RUB_BOL ();  
345 0795 4          [KEY_C_DEL_CHR]:      ACT_DEL_CHR ();  
346 0796 4          [KEY_C_DEL_WRD]:  
347 0797 5              BEGIN  
348 0798 5                  LOCAL STATUS = ACT_DEL_WRD ();  
349 0799 5                  IF NOT .LOCAL_STATUS THEN RETURN;  
350 0800 5              END;  
351 0801 4          [KEY_C_DEL_EOL]:  
352 0802 5              BEGIN  
353 0803 5                  LOCAL STATUS = ACT_DEL_EOL ();  
354 0804 5                  IF NOT .LOCAL_STATUS THEN RETURN;  
355 0805 5              END;  
356 0806 4          [KEY_C_DEL_ACE]:  
357 0807 5              BEGIN  
358 0808 5                  LOCAL STATUS = ACT_DEL_ACE ();  
359 0809 5              END;  
360 0810 4          [KEY_C_DEL_ACE]:  
361 0811 5              BEGIN  
362 0812 5                  LOCAL STATUS = ACT_DEL_ACE ();  
363 0813 5              END;  
364 0814 4          [KEY_C_DEL_ACE]:  
365 0815 5              BEGIN  
366 0816 5                  LOCAL STATUS = ACT_DEL_ACE ();  
367 0817 5              END;
```

```
368      0818 5      IF NOT .LOCAL_STATUS THEN RETURN;
369      0819 4      END;
370      0820 4
371      0821 4 ! Actions to restore deleted text.
372      0822 4
373      0823 4      [KEY_C_UNDEL_CHR]:      ACT_UNDEL_CHR ();
374      0824 4
375      0825 4      [KEY_C_UNDEL_WRD]:      ACT_UNDEL_WRD ();
376      0826 4
377      0827 4      [KEY_C_UNDEL_LIN]:      ACT_UNDEL_LIN ();
378      0828 4
379      0829 4      [KEY_C_UNDEL_ACE]:
380      0830 5      BEGIN
381      0831 5          LOCAL_STATUS = ACT_UNDEL_ACE ();
382      0832 5          IF NOT .LOCAL_STATUS THEN RETURN;
383      0833 4          END;
384      0834 4
385      0835 4 ! Actions to move through the ACL independant of the direction.
386      0836 4
387      0837 4      [KEY_C_UP]:
388      0838 5      BEGIN
389      0839 5          LOCAL_STATUS = ACT_UP ();
390      0840 5          IF NOT .LOCAL_STATUS THEN RETURN;
391      0841 4          END;
392      0842 4
393      0843 4      [KEY_C_DOWN]:
394      0844 5      BEGIN
395      0845 5          LOCAL_STATUS = ACT_DOWN ();
396      0846 5          IF NOT .LOCAL_STATUS THEN RETURN;
397      0847 4          END;
398      0848 4
399      0849 4      [KEY_C_RIGHT]: ACT_RIGHT ();
400      0850 4
401      0851 4      [KEY_C_LEFT]:  ACT_LEFT ();
402      0852 4
403      0853 4      [KEY_C_TOP]:
404      0854 5      BEGIN
405      0855 5          LOCAL_STATUS = ACT_TOP ();
406      0856 5          IF NOT .LOCAL_STATUS THEN RETURN;
407      0857 4          END;
408      0858 4
409      0859 4      [KEY_C_BOTTOM]:
410      0860 5      BEGIN
411      0861 5          LOCAL_STATUS = ACT_BOTTOM ();
412      0862 5          IF NOT .LOCAL_STATUS THEN RETURN;
413      0863 4          END;
414      0864 4
415      0865 4 ! Set the direction of the move.
416      0866 4
417      0867 4      [KEY_C_ADVANCE]:
418      0868 5      BEGIN
419      0869 5          AED_L_FLAGS[AED_V_BACKWARD] = 0;
420      0870 5          AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
421      0871 5          TERM_CHAR = 0;
422      0872 4          END;
423      0873 4
424      0874 4      [KEY_C_BACKUP]:
```



```

: 425      0875 5      BEGIN
: 426      0876 5      AED_L_FLAGS[AED_V_BACKWARD] = 1;
: 427      0877 5      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 428      0878 5      TERM_CHAR = 0;
: 429      0879 4      END;
: 430      0880 4
: 431      0881 4      ! Advance through the ACL based upon the direction chosen.
: 432      0882 4
: 433      0883 4      [KEY_C_MOVE_WRD]:      ACT_MOVE_WRD ();
: 434      0884 4
: 435      0885 4      [KEY_C_MOVE_BOL]:      ACT_MOVE_BOL ();
: 436      0886 4
: 437      0887 4      [KEY_C_MOVE_EOL]:      ACT_MOVE_EOL ();
: 438      0888 4
: 439      0889 4      [KEY_C_MOVE_ACE]:
: 440      0890 5      BEGIN
: 441      0891 5      LOCAL STATUS = ACT_MOVE_ACE ();
: 442      0892 5      IF NOT .LOCAL_STATUS THEN RETURN;
: 443      0893 4      END;
: 444      0894 4
: 445      0895 4      [KEY_C_FIND_STR]:
: 446      0896 5      BEGIN
: 447      0897 5      LOCAL STATUS = ACT_FIND_STR ();
: 448      0898 5      IF NOT .LOCAL_STATUS THEN RETURN;
: 449      0899 4      END;
: 450      0900 4
: 451      0901 4      [KEY_C_FIND_NXT]:
: 452      0902 5      BEGIN
: 453      0903 5      LOCAL STATUS = ACT_FIND_NXT ();
: 454      0904 5      IF NOT .LOCAL_STATUS THEN RETURN;
: 455      0905 4      END;
: 456      0906 4
: 457      0907 4      ! Advance through an ACE using fields and items.
: 458      0908 4
: 459      0909 4      [KEY_C_ADV_FIELD]:
: 460      0910 5      BEGIN
: 461      0911 5      LOCAL STATUS = ACT_ADV_FIELD ();
: 462      0912 5      IF NOT .LOCAL_STATUS THEN RETURN;
: 463      0913 4      END;
: 464      0914 4
: 465      0915 4      [KEY_C_SEL_FIELD]:
: 466      0916 5      BEGIN
: 467      0917 5      LOCAL STATUS = ACT_SEL_FIELD ();
: 468      0918 5      IF NOT .LOCAL_STATUS THEN RETURN;
: 469      0919 4      END;
: 470      0920 4
: 471      0921 4      [KEY_C_SEL_ITEM]:
: 472      0922 5      BEGIN
: 473      0923 5      LOCAL STATUS = ACT_SEL_ITEM ();
: 474      0924 5      IF NOT .LOCAL_STATUS THEN RETURN;
: 475      0925 4      END;
: 476      0926 4
: 477      0927 4      ! Miscellaneous editor actions.
: 478      0928 4
: 479      0929 4      [KEY_C_GOLD]:
: 480      0930 5      BEGIN
: 481      0931 5      AED_L_FLAGS[AED_V_GOLDKEY] = 1;
```

```

: 482      0932 5      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 483      0933 5      TERM_CHAR = 0;
: 484      0934 4      END;
: 485      0935 4
: 486      0936 4      [KEY C HELP]:
: 487      0937 5      BEGIN
: 488      0938 5      AED_L_FLAGS[AED_V_ACEFORMAT] = 0;
: 489      0939 5      ACT_HELP ();
: 490      0940 4      END;
: 491      0941 4
: 492      0942 4      [KEY C HELPFMT]:
: 493      0943 5      BEGIN
: 494      0944 5      AED_L_FLAGS[AED_V_ACEFORMAT] = 1;
: 495      0945 5      ACT_HELP ();
: 496      0946 4      END;
: 497      0947 4
: 498      0948 4      [KEY C ENTER]:
: 499      0949 5      BEGIN
: 500      0950 5      LOCAL STATUS = ACT_ENTER ();
: 501      0951 5      IF NOT .LOCAL_STATUS THEN RETURN;
: 502      0952 4      END;
: 503      0953 4
: 504      0954 4      [KEY C INSERT]:
: 505      0955 5      BEGIN
: 506      0956 5      LOCAL STATUS = ACT_INSERT ();
: 507      0957 5      IF NOT .LOCAL_STATUS THEN RETURN;
: 508      0958 4      END;
: 509      0959 4
: 510      0960 4      [KEY_C_REFRESH]:      ACT_REFRESH (0);
: 511      0961 4
: 512      0962 4      [KEY_C_RESET]:      ACT_REFRESH (1);
: 513      0963 4
: 514      0964 4      [KEY C EXIT]:
: 515      0965 5      BEGIN
: 516      0966 5      LOCAL STATUS = ACT_EXIT (0);
: 517      0967 5      IF NOT .LOCAL_STATUS THEN RETURN;
: 518      0968 4      END;
: 519      0969 4
: 520      0970 4      [KEY C QUIT]:
: 521      0971 5      BEGIN
: 522      0972 5      ACT_EXIT (1);
: 523      0973 5      RETURN;
: 524      0974 4      END;
: 525      0975 4
: 526      0976 4      [KEY C OVERSTRIKE]:
: 527      0977 5      BEGIN
: 528      0978 5      AED_L_FLAGS[AED_V_OVERSTRIKE] = NOT .AED_L_FLAGS[AED_V_OVERSTRIKE];
: 529      0979 5      LEAVE INPUT;
: 530      0980 4      END;
: 531      0981 4
: 532      0982 4      [KEY C DEBUG]:
: 533      0983 5      BEGIN
: 534      0984 5      LOCAL      PREV_HANDLER;
: 535      0985 5      EXTERNAL ROUTINE LIB$SIGNAL : ADDRESSING_MODE (GENERAL);
: 536      0986 5
: 537      0987 5      ! If the debugger is not present, this is a no-op.
: 538      0988 5
```


AED_PROCESSACL - main processing loop

```
.. 539      0989      S          $SETEXV (VECTOR = 0, PRVHND = PREV_HANDLER);
540      0990      S          IF .PREV_HANDLER EQL 0 THEN LEAVE INPUT;
541      0991      S          $SETEXV (VECTOR = 0, ADDRES = .PREV_HANDLER);
542      0992      S
543      0993      S      ! Enter the debugger.
544      0994      S
545      0995      S          SCR$SET CURSOR (21, 1);
546      0996      S          LIB$SIGNAL (SS$ DEBUG);
547      0997      S          SCR$SET CURSOR (.AED_B_LINE, .AED_B_COLUMN);
548      0998      S          LEAVE INPUT;
549      0999      S          END;
550      1000      S
551      1001      S      ! End of the ACTIONKEY case statement.
552      1002      S
553      1003      S      [INRANGE,OUTRANGE]:      LEAVE INPUT;
554      1004      S
555      1005      S          TES;
556      1006      S          END;
557      1007      S
558      1008      S      ! See if it is necessary to continue.
559      1009      S
560      1010      S          IF .TERM_CHAR EQL 0 THEN LEAVE INPUT;
561      1011      S
562      1012      S      ! If the current ACE is marked as untouchable, no modifications are allowed.
563      1013      S
564      1014      S          IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
565      1015      S          THEN
566      1016      S              BEGIN
567      1017      S              SIGNAL (AED$_NOMODIFY);
568      1018      S              LEAVE INPUT;
569      1019      S              END;
570      1020      S
571      1021      S      ! Carriage return - terminate current line segment
572      1022      S
573      1023      S          IF NOT .AED_L_FLAGS[AED_V_ACTIONKEY]
574      1024      S          THEN SELECT ONE .TERM_CHAR OF
575      1025      S          SET
576      1026      S              [X'0D']:
577      1027      S              BEGIN
578      1028      S
579      1029      S      ! Tie off the end of the current segment.
580      1030      S
581      1031      S          AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
582      1032      S          IF .AED_L_FLAGS[AED_V_PROMPT]
583      1033      S          AND .BUFFER_INDEX GEQ .SEGMENT_SIZE
584      1034      S          THEN
585      1035      S              BEGIN
586      1036      S              IF .INPUT_BUFFER[.BUFFER_INDEX - 1] NEQ ' '
587      1037      S              AND .INPUT_BUFFER[.BUFFER_INDEX - 1] NEQ '='
588      1038      S              AND .INPUT_BUFFER[.BUFFER_INDEX - 1] NEQ ')'
589      1039      S              AND NOT .AED_L_FLAGS[AED_V_OPENUI]
590      1040      S              AND .AED_B_FIELD LSS 2
591      1041      S              AND .SEGMENT_SIZE GTR 0
592      1042      S              THEN
593      1043      S                  BEGIN
594      1044      S                  BUFFER_CHAR = ' ';
595      1045      S                  ECHO_DESC[DESC$W_LENGTH] = 1;
```



```
596 1046 6      ECHO DESC[DSC$A POINTER] = BUFFER_CHAR;
597 1047 6      AED_PUTOUTPUT (ECHO_DESC);
598 1048 6      AED_B_COLUMN = .AED_B_COLUMN + 1;
599 1049 6      BUFFER_INDEX = .BUFFER_INDEX + 1;
600 1050 6      SEGMENT_SIZE = .SEGMENT_SIZE + 1;
601 1051 5      END;
602 1052 4      END;
603 1053 4
604 1054 4      ! Split the line.
605 1055 4
606 1056 4      NEW_TEXT_LINE = AED_SEGSPLIT (BUFFER_INDEX, 1, 0, 0);
607 1057 4
608 1058 4      ! See if a new prompt string is necessary.
609 1059 4
610 1060 4      IF .AED_L_FLAGS[AED_V_PROMPT]
611 1061 4      AND NOT .AED_L_FLAGS[AED_V_OPENUI]
612 1062 4      AND NOT .AED_L_FLAGS[AED_V_NOITEMSEL]
613 1063 4      AND .AED_L_LASTLINE EQLAED T CURLINE[LINE_L_FLINK]
614 1064 4      AND .AED_L_FIRSTLINE[LINE_L_BINACE] EQL 0
615 1065 4      THEN
616 1066 5      BEGIN
617 1067 5      AED_L_FLAGS[AED_V_NOITEMSEL] = 0;
618 1068 5      AED_SELECTFIELD (BUFFER_INDEX);
619 1069 5      ECHO_DESC[DSC$W_LENGTH] = .AED_T_CURLINE[LINE_W_SIZE];
620 1070 5      ECHO_DESC[DSC$A_POINTER] = AED_T_CURLINE[LINE_T_TEXT];
621 1071 5      SCR$SET CURSOR (.AED_B_LINE, 1);
622 1072 5      AED_PUTOUTPUT (ECHO_DESC);
623 1073 5      SCR$ERASE LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
624 1074 5      AED_B_COLUMN = .BUFFER_INDEX + 1;
625 1075 4      END;
626 1076 4      AED_SET CURSOR (.AED_B_LINE, .AED_B_COLUMN);
627 1077 4      AED_L_FLAGS[AED_V_INSERTTEXT] = 1;
628 1078 4      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
629 1079 4      LEAVE INPUT;
630 1080 3      END;
631 1081 3
632 1082 3      ! All other characters
633 1083 3
634 1084 3      [OTHERWISE]:
635 1085 4      BEGIN
636 1086 4
637 1087 4      ! Check for special characters.
638 1088 4
639 1089 4      IF .TERM_CHAR LSS ' ' THEN LEAVE INPUT;      ! Ignore control chars
640 1090 4      AED_L_FLAGS[AED_V_MODIFIED] = 1;
641 1091 4      AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
642 1092 4      IF .TERM_CHAR GEQ 'a' AND .TERM_CHAR LEQ 'z'
643 1093 4      OR .TERM_CHAR GEQ 'X'EO' AND .TERM_CHAR LEQ 'X'FE'
644 1094 4      THEN TERM_CHAR = .TERM_CHAR - 32;      ! Lower to upper case letters
645 1095 4
646 1096 4      ! Echo the character just typed at the current position or split the line and
647 1097 4      ! echo the character.
648 1098 4
649 1099 5      IF (.BUFFER_INDEX GEQ .AED_L_PAGEWIDTH)
650 1100 5      OR (NOT .AED_L_FLAGS[AED_V_OVERSTRIKE]
651 1101 5      AND .SEGMENT_SIZE GEQ .AED_L_PAGEWIDTH)
652 1102 4      THEN AED_SEGSPLIT (BUFFER_INDEX, 0, 0, 0);
```



```

: 653      1103  4
: 654      1104  4      ECHO_DESC[DSCSW_LENGTH] = 1;
: 655      1105  4      ECHO_DESC[DSCSA_POINTER] = TERM_CHAR;
: 656      1106  4      AED_PUTOUTPUT (ECHO_DESC);
: 657      1107  4
: 658      1108  4      ! If the character was entered in insert mode, move all of the characters
: 659      1109  4      ! over one position.
: 660      1110  4
: 661      1111  4      IF .BUFFER_INDEX LSS .SEGMENT_SIZE
: 662      1112  4      AND NOT .AED_L_FLAGS[AED_V_OVERSTRIKE]
: 663      1113  4      THEN
: 664      1114  5      BEGIN
: 665      1115  5      ECHO_DESC[DSCSW_LENGTH] = .SEGMENT_SIZE - .BUFFER_INDEX;
: 666      1116  5      ECHO_DESC[DSCSA_POINTER] = BUFFER_CHAR;
: 667      1117  5      AED_PUTOUTPUT (ECHO_DESC);
: 668      1118  5      AED_SET_CURSOR (.AED_B_LINE, .BUFFER_INDEX + 2);
: 669      1119  5      CH$COPY(.ECHO_DESC[DSCSW_LENGTH], BUFFER_CHAR,
: 670      1120  5      0
: 671      1121  5      512 - .BUFFER_INDEX - 1, INPUT_BUFFER[.BUFFER_INDEX + 1]);
: 672      1122  4      END;
: 673      1123  4
: 674      1124  4      IF .TERM_CHAR EQL '[' THEN AED_L_FLAGS[AED_V_OPENUIIC] = 1;
: 675      1125  4      IF .TERM_CHAR EQL ']' THEN AED_L_FLAGS[AED_V_OPENUIIC] = 0;
: 676      1126  4
: 677      1127  4      ! Now put the entered character into the line buffer.
: 678      1128  4
: 679      1129  4      BUFFER_CHAR = .TERM_CHAR;
: 680      1130  4      BUFFER_INDEX = .BUFFER_INDEX + 1;
: 681      1131  4      AED_B_COLUMN = .BUFFER_INDEX + 1;
: 682      1132  4
: 683      1133  4      ! If in insert mode, the segment size has grown by one character.
: 684      1134  4
: 685      1135  4      IF NOT .AED_L_FLAGS[AED_V_OVERSTRIKE]
: 686      1136  4      OR .BUFFER_INDEX GEQ .SEGMENT_SIZE
: 687      1137  4      THEN SEGMENT_SIZE = .SEGMENT_SIZE + 1;
: 688      1138  4      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 689      1139  3      END;
: 690      1140  3      TES;
: 691      1141  2      END;
: 692      1142  2
: 693      1143  2      RETURN;
: 694      1144  1      END;

```

! End of routine AED_PROCESSACL

```

.TITLE  AED$MAIN
.IDENT  \V04-000\
.PSECT  AED_COMMON,NOEXE,  OVR,0

```

```

00000 AED_L_FLAGS:
      .BLKB  4
00004 AED_B_OPTIONS:
      .BLKB  1
00005      .BLKB  3
00008 AED_L_OBJTYP:
      .BLKB  4
0000C AED_Q_OBJNAM:

```


00014	AED_L_WORSTERR:	.BLKB	8
00018	AED_L_PAGEWIDTH:	.BLKB	4
0001C	AED_L_PAGESIZE:	.BLKB	4
00020	AED_B_COLUMN:	.BLKB	4
00021		.BLKB	1
00024	AED_B_LINE:	.BLKB	3
00025		.BLKB	1
00028	AED_B_SAVE_COL:	.BLKB	3
00029		.BLKB	1
0002C	AED_B_SAVE_LIN:	.BLKB	3
0002D		.BLKB	1
00030	AED_Q_LINETABLE:	.BLKB	3
0003C	AED_L_CURACE:	.BLKB	12
00040	AED_L_FIRSTLINE:	.BLKB	4
00044	AED_L_LASTLINE:	.BLKB	4
00048	AED_L_BEGINLINE:	.BLKB	4
0004C	AED_W_INPUTLEN:	.BLKB	4
0004E		.BLKB	2
00050	AED_Q_DEL ACE:	.BLKB	2
00058	AED_Q_DEL LINE:	.BLKB	8
00060	AED_Q_DEL WORD:	.BLKB	8
00068	AED_B_DEL CHAR:	.BLKB	8
00069		.BLKB	1
0006C	AED_A_ACLBUFFER:	.BLKB	3
00070	AED_Q_OUTLINE:	.BLKB	4
00078	AED_W_OBJCHAN:	.BLKB	8
0007A		.BLKB	2
0007C	AED_W_TERMIN:	.BLKB	2
0007E		.BLKB	2
00080	AED_W_TERMOUT:	.BLKB	2
00082		.BLKB	2
00084	AED_W_IOSB:	.BLKB	2
0008C	AED_L_STATUS:	.BLKB	8


```
00090 AED_B_FIELD: .BLKB 4
00091 .BLKB 1
00094 AED_W_FIELD: .BLKB 3
00096 .BLKB 2
00098 AED_W_FIELD: .BLKB 2
0009A .BLKB 2
0009C AED_B_ITEM: .BLKB 1
0009D .BLKB 3
000A0 AED_W_ITEM: .BLKB 2
000A2 .BLKB 2
000A4 AED_W_ITEM: .BLKB 2
000A6 .BLKB 2
000A8 AED_B_ACETYPE: .BLKB 1
000A9 .BLKB 3
000AC AED_W_JOURNAL: .BLKB 2
000AE .BLKB 2
000B0 AED_T_CURLINE: .BLKB 532
002C4 AED_W_TOTALSIZE: .BLKB 2
002C6 .BLKB 2
002C8 JOURNAL_FAB: .BLKB 80
00318 JOURNAL_NAM: .BLKB 96
00378 JOURNAL_RAB: .BLKB 68
003BC JOURNAL_XABPRO: .BLKB 88
00414 JOURNAL_BUFFER: .BLKB 10
0041E .BLKB 2
00420 JOURNAL_INDEX: .BLKB 4
00424 RECOVER_FAB: .BLKB 80
00474 RECOVER_NAM: .BLKB 96
004D4 RECOVER_RAB: .BLKB 68
00518 RECOVER_BUFFER: .BLKB 10
00522 .BLKB 2
00524 RECOVER_INDEX: .BLKB 4

.PSECT $OWNS,NOEXE,2
```


00000 BUFFER_INDEX:
 .BKLB 4
00004 ECHO_DESC:
 .BKLB 8
0000C TEMP_LINE:
 .BKLB 4
00010 REMOVED_LINE:
 .BKLB 4
00014 REMOVED_ACE:
 .BKLB 4
00018 NEW_TEXT_LINE:
 .BKLB 4
0001C CHAR_PROCESSED:
 .BKLB 4
00020 APPEND_INDEX:
 .BKLB 4
00024 DUMMY_LINE:
 .BKLB 4
00028 TERM_CHAR:
 .BKLB 1
00029 .BKLB 3
0002C SEARCH_SIZE:
 .BKLB 2
0002E .BKLB 2
00030 SEARCH_STRING:
 .BKLB 512

SEGMENT_SIZE= AED_T_CURLINE+8
INPUT_BUFFER= AED_T_CURLINE+20
 .EXTRN CLISGET_VALUE, CLISPRESENT
 .EXTRN LIB\$FREE_VM, LIB\$GET_VM
 .EXTRN LIB\$PARSE, SCR\$DOWN_SCROLL
 .EXTRN SCR\$ERASE_LINE, SCR\$ERASE_PAGE
 .EXTRN SCR\$SET_CURSOR, SCR\$SET_SCROLL
 .EXTRN SCR\$UP_SCROLL, AED\$OBJLOCKED
 .EXTRN AED\$BADKEEP, AED\$_LOCATERR
 .EXTRN AED\$_INIREADERR
 .EXTRN AED\$_JOUWRITERR
 .EXTRN AED\$_JOUOPENOUT
 .EXTRN AED\$_JOUCLOSEOUT
 .EXTRN AED\$_RECREADERR
 .EXTRN AED\$_RECOPENIN, AED\$ RECLOSEIN
 .EXTRN AED\$_BADUIC, AED\$_BADGRPMEM
 .EXTRN AED\$_SYNTAX, AED\$_BADTYPE
 .EXTRN AED\$_NOITEMSEL, AED\$_MUSTENTER
 .EXTRN AED\$_INIOPENIN, AED\$_INICLOSIN
 .EXTRN AED\$_DEFSYNTAX, AED\$_NODELETE
 .EXTRN AED\$_NOMODIFY, AED\$_NOHIDDEN
 .EXTRN AED\$_DUPLICATE, AED\$_NOCOMBINE
 .EXTRN AED\$_NODEFAULT, AED\$_NOCTRLCHAR
 .EXTRN AED\$_NOTFOUND, AED\$_CONTROL_C
 .EXTRN AED\$_ACLUPDATED
 .EXTRN AED\$_NOCHANGE, AED_PUTOUTPUT
 .EXTRN AED_GIVEHELP, AED_UPDATEACL
 .EXTRN AED_SET_CURSOR, AED_SELECTFIELD
 .EXTRN AED_SELECTITEM, AED_SETACETYPE
 .EXTRN AED_COMPRESS, AED_POSITION

				OFFC 00000					.EXTRN AED_COPSEGMENT, AED_REPSEGMENT	
								.EXTRN AED_SEGSPLIT, AED_SEGCOMBINE		
								.EXTRN AED_DECODEKEY, LIB\$SIGNAL		
								.EXTRN SYS\$SETEXV		
								.PSECT \$CODE\$,NOWRT,2		
								.ENTRY AED_PROCESSACL, Save R2,R3,R4,R5,R6,R7,R8,-	0648	
								R9,R10,R11		
								MOVAB SCR\$ERASE_LINE, R11		
								MOVAB AED_PUTOUTPUT, R10		
								MOVAB SCR\$SET_CURSOR, R9		
								MOVAB BUFFER_INDEX, R8		
								MOVAB AED_L_FLAGS, R7		
								SUBL2 #4, -SP		
08		00		6E		00	2C	00022	MOVCS #0, (SP), #0, #8, ECHO_DESC	0696
					04	A8		00027		
	60	A7	04	A8		08	28	00029	MOVCS #8, ECHO_DESC, AED_Q_DEL_WORD	0697
	58	A7	04	A8		08	28	0002F	MOVCS #8, ECHO_DESC, AED_Q_DEL_LINE	0698
					68	A7	94	00035	CLRB AED_B_DEL_CHAR	0699
					68	D4	00038	CLRL BUFFER_INDEX		0700
			50	A7	50	A7	9E	0003A	MOVAB AED_Q_DEL_ACE, AED_Q_DEL_ACE	0704
			54	A7	50	A7	9E	0003F	MOVAB AED_Q_DEL_ACE, AED_Q_DEL_ACE+4	0705
				67	1040	8F	A8	00044	BISW2 #4160, AED_L_FLAGS	0707
				50	30	A7	9E	00049	MOVAB AED_Q_LINETABLE, R0	0714
				50	30	A7	D1	0004D	CML AED_Q_LINETABLE, R0	
						69	12	00051	BNEQ 2\$	
				67	4020	8F	A8	00053	BISW2 #16416, AED_L_FLAGS	0718
					00B8	C7	B4	00058	CLRW SEGMENT_SIZE	0719
					02C4	C7	B4	0005C	CLRW AED_W_TOTALSIZE	
			34	B7	00B0	C7	0E	00060	INSQUE AED_T_CURLINE, @AED_Q_LINETABLE+4	0720
				50	00B0	C7	9E	00066	MOVAB AED_T_CURLINE, R0	0721
			44	A7		50	D0	0006B	MOVL R0, AED_L_LASTLINE	
			40	A7		50	D0	0006F	MOVL R0, AED_L_FIRSTLINE	
			0A	A0		01	B0	00073	MOVW #1, 10(R0)	0722
					3C	A7	D4	00077	CLRL AED_L_CURACE	0723
					01	A7	95	0007A	TSTB AED_L_FLAGS+1	0724
						03	19	0007D	BLSS 1\$	
						00AE	31	0007F	BRW 7\$	
					00A8	C7	94	00082	CLRB AED_B_ACETYPE	0727
			02	A7		08	8A	00086	BICB2 #8, AED_L_FLAGS+2	0728
						58	DD	0008A	PUSHL R8	0729
			0000G	CF		01	FB	0008C	CALLS #1, AED_SELECTFIELD	
			04	A8	00B8	C7	B0	00091	MOVW AED_T_CURLINE+8, ECHO_DESC	0730
			08	A8	00C4	C7	9E	00097	MOVAB AED_T_CURLINE+20, ECHO_DESC+4	0731
						01	DD	0009D	PUSHL #1	0732
				7E	24	A7	9A	0009F	MOVZBL AED_B_LINE, -(SP)	
				69		02	FB	000A3	CALLS #2, SCR\$SET_CURSOR	
					04	A8	9F	000A6	PUSHAB ECHO_DESC	0733
				6A		01	FB	000A9	CALLS #1, AED_PUTOUTPUT	
				7E	00B8	C7	3C	000AC	MOVZWL SEGMENT_SIZE, -(SP)	0734
						6E	D6	000B1	INCL (SP)	
				7E	24	A7	9A	000B3	MOVZBL AED_B_LINE, -(SP)	
				6B		02	FB	000B7	CALLS #2, SCR\$ERASE_LINE	
						62	11	000BA	BRB 6\$	0735
					30	A7	DD	000BC	PUSHL AED_Q_LINETABLE	0741
			0000G	CF		01	FB	000BF	CALLS #1, AED_COPSEGMENT	

	30	A7	00B0	C7	0E	000C4	INSQUE	AED_T_CURLINE, AED_Q_LINETABLE	: 0742
		50	00B0	C7	9E	000CA	MOVAB	AED-T-CURLINE, R0	0743
	44	A7		50	D0	000CF	MOVL	R0, AED-L-LASTLINE	
	40	A7		50	D0	000D3	MOVL	R0, AED-L-FIRSTLINE	
		51	40	A7	D0	000D7	MOVL	AED L FIRSTLINE, R1	0744
	02C4	C7	08	A1	B0	000DB	MOVW	8(RT), AED W TOTALSIZE	
		50	44	A7	D0	000E1	MOVL	AED L LASTLINE, R0	0745
1F	0A	A0		01	E0	000E5	BBS	#1, -10(R0), 5\$	
		52	00B0	C7	9E	000EA	MOVAB	AED T CURLINE, R2	0748
		52		50	D1	000EF	CMPL	R0, -R2	
				04	12	000F2	BNEQ	4\$	
	44	A7		60	D0	000F4	MOVL	(R0), AED L LASTLINE	0749
	44	A7	44	B7	D0	000F8	MOVL	@AED L LASTLINE, AED_L_LASTLINE	0750
		50	44	A7	D0	000FD	MOVL	AED C LASTLINE, R0	0751
	02C4	C7	08	A0	A0	00101	ADDW2	8(R0), AED_W_TOTALSIZE	
				DC	11	00107	BRB	3\$	0745
	3C	A7	0C	A1	D0	00109	MOVL	12(R1), AED L CURACE	0753
			01	A7	95	0010E	TSTB	AED_L_FLAGS+1-	0754
				1D	18	00111	BGEQ	7\$	
	02	A7		08	88	00113	BISB2	#8, AED_L_FLAGS+2	0757
				58	DD	00117	PUSHL	R8	0758
	0000G	CF		01	FB	00119	CALLS	#1, AED SELECTFIELD	
20	A7	68		01	81	0011E	ADDB3	#1, BUFFER INDEX, AED_B_COLUMN	0759
		7E	20	A7	9A	00123	MOVZBL	AED_B_COLUMN, -(SP)	0760
		7E	24	A7	9A	00127	MOVZBL	AED_B LINE, -(SP)	
	0000G	CF		02	FB	0012B	CALLS	#2, AED SET CURSOR	
	48	A7	30	A7	D0	00130	MOVL	AED Q LINETABLE, AED_L_BEGINLINE	0763
	0000G	CF		00	FB	00135	CALLS	#0, AED DECODEKEY	0771
	28	A8		50	90	0013A	MOVB	R0, TERM_CHAR	
				01	12	0013E	BNEQ	9\$	0772
					04	00140	RET		
	20	67		06	E1	00141	BBC	#6, AED_L_FLAGS, 10\$	0773
1C		67		03	E1	00145	BBC	#3, AED_L_FLAGS, 10\$	
				01	DD	00149	PUSHL	#1	0776
				15	DD	0014B	PUSHL	#21	
	00000000G	00		02	FB	0014D	CALLS	#2, SCRSEASE PAGE	
		68		01	C1	00154	ADDL3	#1, BUFFER_INDEX, -(SP)	0777
7E		7E	24	A7	9A	00158	MOVZBL	AED B LINE, -(SP)	
	0000G	CF		02	FB	0015C	CALLS	#2, AED SET CURSOR	
		67	40	8F	8A	00161	BICB2	#64, AED L FLAGS	0778
03	02	A7		05	E0	00165	BBS	#5, AED_C_FLAGS+2, 11\$	0783
				01B2	31	0016A	BRW	68\$	
	28	01	28	A8	8F	0016D	CASEB	TERM CHAR, #1, #40	0786
	012A	0124		0117		00172	.WORD	49\$-12\$, -	
00F4	0109	007F		00FB		0017A		51\$-12\$, -	
00CC	008D	0071		0102		00182		52\$-12\$, -	
006A	00BE	00D2		00C5		0018A		41\$-12\$, -	
00E6	00ED	00D8		0086		00192		43\$-12\$, -	
0135	0110	013C		0078		0019A		21\$-12\$, -	
00A9	00A2	FFC3		FFC3		001A2		25\$-12\$, -	
016E	0167	00B7		00B0		001AA		46\$-12\$, -	
0094	0063	005C		00DF		001B2		45\$-12\$, -	
015F	0151	0147		0143		001BA		19\$-12\$, -	
				0055		001C2		23\$-12\$, -	

					30\$-12\$,-	
					17\$-12\$,-	
					22\$-12\$,-	
					35\$-12\$,-	
					39\$-12\$,-	
					37\$-12\$,-	
					20\$-12\$,-	
					56\$-12\$,-	
					47\$-12\$,-	
					55\$-12\$,-	
					8\$-12\$,-	
					8\$-12\$,-	
					26\$-12\$,-	
					27\$-12\$,-	
					28\$-12\$,-	
					29\$-12\$,-	
					65\$-12\$,-	
					66\$-12\$,-	
					36\$-12\$,-	
					14\$-12\$,-	
					15\$-12\$,-	
					24\$-12\$,-	
					58\$-12\$,-	
					59\$-12\$,-	
					62\$-12\$,-	
					64\$-12\$,-	
					13\$-12\$,-	
		FF6E	31	001C4	BRW	8\$
0000V	CF	00	FB	001C7 13\$:	CALLS	#0, ACT_RUB_CHR
		97	11	001CC	BRB	10\$
0000V	CF	00	FB	001CE 14\$:	CALLS	#0, ACT_RUB_WRD
		67	11	001D3	BRB	32\$
0000V	CF	00	FB	001D5 15\$:	CALLS	#0, ACT_RUB_BOL
		89	11	001DA 16\$:	BRB	10\$
0000V	CF	00	FB	001DC 17\$:	CALLS	#0, ACT_DEL_CHR
		82	11	001E1 18\$:	BRB	10\$
0000V	CF	00	FB	001E3 19\$:	CALLS	#0, ACT_DEL_WRD
		7A	11	001E8	BRB	40\$
0000V	CF	00	FB	001EA 20\$:	CALLS	#0, ACT_DEL_EOL
		7A	11	001EF	BRB	42\$
0000V	CF	00	FB	001F1 21\$:	CALLS	#0, ACT_DEL_ACE
		7A	11	001F6	BRB	44\$
0000V	CF	00	FB	001F8 22\$:	CALLS	#0, ACT_UNDEL_CHR
		5E	11	001FD	BRB	38\$
0000V	CF	00	FB	001FF 23\$:	CALLS	#0, ACT_UNDEL_WRD
		57	11	00204	BRB	38\$
0000V	CF	00	FB	00206 24\$:	CALLS	#0, ACT_UNDEL_LIN
		50	11	0020B	BRB	38\$
0000V	CF	00	FB	0020D 25\$:	CALLS	#0, ACT_UNDEL_ACE
		73	11	00212	BRB	48\$
0000V	CF	00	FB	00214 26\$:	CALLS	#0, ACT_UP
		6C	11	00219	BRB	48\$
0000V	CF	00	FB	0021B 27\$:	CALLS	#0, ACT_DOWN
		65	11	00220	BRB	48\$
0000V	CF	00	FB	00222 28\$:	CALLS	#0, ACT_RIGHT
		7C	11	00227	BRB	54\$
0000V	CF	00	FB	00229 29\$:	CALLS	#0, ACT_LEFT

0000V	CF	75	11	0022E	BRB	54\$		
		00	FB	00230	CALLS	#0,	ACT_TOP	0855
		7C	11	00235	BRB	57\$		
0000V	CF	00	FB	00237	CALLS	#0,	ACT_BOTTOM	0861
		75	11	0023C	BRB	57\$		
01	A7	01	8A	0023E	BICB2	#1,	AED_L_FLAGS+1	0869
		49	11	00242	BRB	50\$		0870
01	A7	01	88	00244	BISB2	#1,	AED_L_FLAGS+1	0876
		43	11	00248	BRB	50\$		0877
0000V	CF	00	FB	0024A	CALLS	#0,	ACT_MOVE_WRD	0883
		6F	11	0024F	BRB	61\$		
0000V	CF	00	FB	00251	CALLS	#0,	ACT_MOVE_BOL	0885
		82	11	00256	BRB	16\$		
0000V	CF	00	FB	00258	CALLS	#0,	ACT_MOVE_EOL	0887
		82	11	0025D	BRB	18\$		
0000V	CF	00	FB	0025F	CALLS	#0,	ACT_MOVE_ACE	0891
		64	11	00264	BRB	63\$		
0000V	CF	00	FB	00266	CALLS	#0,	ACT_FIND_STR	0897
		5D	11	0026B	BRB	63\$		
0000V	CF	00	FB	0026D	CALLS	#0,	ACT_FIND_NXT	0903
		56	11	00272	BRB	63\$		
0000V	CF	00	FB	00274	CALLS	#0,	ACT_ADV_FIELD	0911
		4F	11	00279	BRB	63\$		
0000V	CF	00	FB	0027B	CALLS	#0,	ACT_SEL_FIELD	0917
		48	11	00280	BRB	63\$		
0000V	CF	00	FB	00282	CALLS	#0,	ACT_SEL_ITEM	0923
		41	11	00287	BRB	63\$		
01	A7	08	88	00289	BISB2	#8,	AED_L_FLAGS+1	0931
02	A7	20	8A	0028D	BICB2	#32,	AED_L_FLAGS+2	0932
		28	A8	94	CLRB	TERM_CHAR		0933
			2A	11	BRB	61\$		0786
02	A7	10	8A	00296	BICB2	#16,	AED_L_FLAGS+2	0938
		04	11	0029A	BRB	53\$		0939
02	A7	10	88	0029C	BISB2	#16,	AED_L_FLAGS+2	0944
0000V	CF	00	FB	002A0	CALLS	#0,	ACT_RECV	0945
		19	11	002A5	BRB	61\$		0786
0000V	CF	00	FB	002A7	CALLS	#0,	ACT_ENTER	0950
		1C	11	002AC	BRB	63\$		
0000V	CF	00	FB	002AE	CALLS	#0,	ACT_INSERT	0956
		15	11	002B3	BRB	63\$		
		7E	D4	002B5	CLRL	-(SP)		0960
		02	11	002B7	BRB	60\$		
0000V	CF	01	DD	002B9	PUSHL	#1		0962
		01	FB	002BB	CALLS	#1,	ACT_REFRESH	
		FEA2	31	002C0	BRW	10\$		
		7E	D4	002C3	CLRL	-(SP)		0966
0000V	CF	01	FB	002C5	CALLS	#1,	ACT_EXIT	
	56	50	D0	002CA	MOVL	R0,	LOCAL_STATUS	
	F0	56	E8	002CD	BLBS	LOCAL_STATUS,	61\$	0967
			04	002D0	RET			
0000V	CF	01	DD	002D1	PUSHL	#1		0972
		01	FB	002D3	CALLS	#1,	ACT_EXIT	
			04	002D8	RET			0971
02	A7	80	8F	8C	XORB2	#128,	AED_L_FLAGS+2	0978
			3D	11	BRB	67\$		0979
			5E	DD	PUSHL	SP		0989
			7E	7C	CLRQ	-(SP)		

00000000G	00	7E	D4	002E4	CLRL	-(SP)	
		04	FB	002E6	CALLS	#4, SYSS\$SETEXV	
		6E	D5	002ED	TSTL	PREV_HANDLER	0990
		74	13	002EF	BEQL	71\$	
		7E	7C	002F1	CLRL	-(SP)	0991
	08	AE	DD	002F3	PUSHL	PREV_HANDLER	
		7E	D4	002F6	CLRL	-(SP)	
00000000G	00	04	FB	002F8	CALLS	#4, SYSS\$SETEXV	
		01	DD	002FF	PUSHL	#1	0995
		15	DD	00301	PUSHL	#21	
	69	02	FB	00303	CALLS	#2, SCR\$SET_CURSOR	
	7E	8F	3C	00306	MOVZWL	#1132, -(SP)	0996
00000000G	00	01	FB	0030B	CALLS	#1, LIB\$SIGNAL	
	7E	A7	9A	00312	MOVZBL	AED_B_COLUMN, -(SP)	0997
	7E	A7	9A	00316	MOVZBL	AED_B_LINE, -(SP)	
	69	02	FB	0031A	CALLS	#2, SCR\$SET_CURSOR	
		5C	11	0031D	BRB	72\$	0998
	28	A8	95	0031F	TSTB	TERM_CHAR	1010
		57	13	00322	BEQL	72\$	
	40	A7	D0	00324	MOVL	AED_L_FIRSTLINE, R0	1014
51	0A	04	E1	00328	BBC	#4, -10(R0), 73\$	
12		03	E1	0032D	BBC	#3, AED_L_FLAGS, 69\$	1017
		01	DD	00331	PUSHL	#1	
		15	DD	00333	PUSHL	#21	
00000000G	00	02	FB	00335	CALLS	#2, SCR\$ERASE_PAGE	
		01	DD	0033C	PUSHL	#1	
		15	DD	0033E	PUSHL	#21	
	69	02	FB	00340	CALLS	#2, SCR\$SET_CURSOR	
		8F	DD	00343	PUSHL	#AED\$_NOMODIFY	
00000000G	00	01	FB	00349	CALLS	#1, LIB\$SIGNAL	
0B		03	E1	00350	BBC	#3, AED_L_FLAGS, 70\$	
	67	A7	9A	00354	MOVZBL	AED_B_COLUMN, -(SP)	
	7E	A7	9A	00358	MOVZBL	AED_B_LINE, -(SP)	
	7E	02	FB	0035C	CALLS	#2, SCR\$SET_CURSOR	
	69	8F	D5	0035F	TSTL	#<AED\$_NOMODIFY&7>	
		14	13	00365	BEQL	72\$	
00000000*	8F	00	ED	00367	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_NOMODIFY&7>	
		08	18	00371	BGEQ	72\$	
	14	A7	D0	00373	MOVL	#AED\$_NOMODIFY, AED_L_WORSTERR	
		8F	D0	0037B	BRW	8\$	1018
		05	E0	0037E	BBS	#5, AED_L_FLAGS+2, 72\$	1023
	F8	02	A8	9A	MOVZBL	TERM_CHAR, R1	1024
		51	91	00387	CMPB	R1, #13	1026
	0D	03	13	0038A	BEQL	74\$	
		00DC	31	0038C	BRW	77\$	
		10	8A	0038F	BICB2	#16, AED_L_FLAGS+1	1031
		57	18	00393	BGEQ	75\$	1032
		00	ED	00395	CMPZV	#0, #16, SEGMENT_SIZE, BUFFER_INDEX	1033
		4E	14	0039C	BGTR	75\$	
	50	C7	9E	0039E	MOVAB	INPUT_BUFFER, R0	1036
	50	68	C0	003A3	ADDL2	BUFFER_INDEX, R0	
	2C	FF	A0	91	CMPB	-1(R0), #44	
		40	13	003AA	BEQL	75\$	
	3D	FF	A0	91	CMPB	-1(R0), #61	1037
		3A	13	003B0	BEQL	75\$	
	29	FF	A0	91	CMPB	-1(R0), #41	1038
		34	13	003B6	BEQL	75\$	

	30	02	A7	E8	003B8	BLBS	AED_L_FLAGS+2, 75\$	1039	
	02	0090	C7	91	003BC	CMPB	AED_B_FIELD, #2	1040	
			29	1E	003C1	BGEQU	75\$		
		00B8	C7	B5	003C3	TSTW	SEGMENT_SIZE	1041	
			23	13	003C7	BEQL	75\$		
	50	00C4	C7	9E	003C9	MOVAB	INPUT_BUFFER, R0	1043	
00	B840		2C	90	003CE	MOVB	#44, @BUFFER_INDEX[R0]	1044	
04	A8		01	B0	003D3	MOVW	#1, ECHO_DESC	1045	
08	A8	00	B840	9E	003D7	MOVAB	@BUFFER_INDEX[R0], ECHO_DESC+4	1046	
		04	A8	9F	003DD	PUSHAB	ECHO_DESC	1047	
	6A		01	FB	003E0	CALLS	#1, AED_PUTOUTPUT		
		20	A7	96	003E3	INCB	AED_B_COLUMN	1048	
			68	D6	003E6	INCL	BUFFER_INDEX	1049	
		00B8	C7	B6	003E8	INCW	SEGMENT_SIZE	1050	
			7E	7C	003EC	CLRW	-(SP)	1056	
			01	DD	003EE	PUSHL	#1		
			58	DD	003F0	PUSHL	R8		
0000G	CF		04	FB	003F2	CALLS	#4, AED_SEGSPLIT		
18	A8		50	D0	003F7	MOVL	R0, NEW_TEXT_LINE		
		01	A7	95	003FB	TSTB	AED_L_FLAGS+T	1060	
			56	18	003FE	BGEQ	76\$		
4D	02	52	02	A7	E8	00400	BLBS	AED_L_FLAGS+2, 76\$	1061
		A7		03	E0	00404	BBS	#3, AED_L_FLAGS+2, 76\$	1062
		50	00B0	C7	9E	00409	MOVAB	AED_T_CURLINE, R0	1063
		50	44	A7	D1	0040E	CMPL	AED_L_LASTLINE, R0	
			42	12	00412	BNEQ	76\$		
		50	40	A7	D0	00414	MOVL	AED_L_FIRSTLINE, R0	1064
			0C	A0	D5	00418	TSTL	12(R0)	
			39	12	0041B	BNEQ	76\$		
	02	A7		08	8A	0041D	BICB2	#8, AED_L_FLAGS+2	1067
				58	DD	00421	PUSHL	R8	1068
0000G	CF		01	FB	00423	CALLS	#1, AED_SELECTFIELD		
04	A8	00B8	C7	B0	00428	MOVW	AED_T_CURLINE+8, ECHO_DESC	1069	
08	A8	00C4	C7	9E	0042E	MOVAB	AED_T_CURLINE+20, ECHO_DESC+4	1070	
			01	DD	00434	PUSHL	#1	1071	
	7E	24	A7	9A	00436	MOVZBL	AED_B_LINE, -(SP)		
69			02	FB	0043A	CALLS	#2, SCRSET_CURSOR		
		04	A8	9F	0043D	PUSHAB	ECHO_DESC	1072	
	6A		01	FB	00440	CALLS	#1, AED_PUTOUTPUT		
	7E	00B8	C7	3C	00443	MOVZWL	SEGMENT_SIZE, -(SP)	1073	
			6E	D6	00448	INCL	(SP)		
	7E	24	A7	9A	0044A	MOVZBL	AED_B_LINE, -(SP)		
20	6B		02	FB	0044E	CALLS	#2, SCRERASE_LINE		
	68		01	81	00451	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	1074	
	7E	20	A7	9A	00456	MOVZBL	AED_B_COLUMN, -(SP)	1076	
	7E	24	A7	9A	0045A	MOVZBL	AED_B_LINE, -(SP)		
0000G	CF		02	FB	0045E	CALLS	#2, AED_SET_CURSOR		
01	A7	40	8F	88	00463	BISB2	#64, AED_L_FLAGS+1	1077	
			00E0	31	00468	BRW	88\$	1078	
	20		51	91	0046B	CMPB	R1, #32	1089	
			03	1E	0046E	BGEQU	78\$		
			FCC2	31	00470	BRW	8\$		
	67	80	8F	88	00473	BISB2	#128, AED_L_FLAGS	1090	
01	A7		10	8A	00477	BICB2	#16, AED_C_FLAGS+1	1091	
61	8F		51	91	0047B	CMPB	R1, #97	1092	
			06	1F	0047F	BLSSU	79\$		
7A	8F		51	91	00481	CMPB	R1, #122		

					0C 1B 00485		BLEQU	80\$		
	E0	8F			51 91 00487	79\$:	CMPB	R1, #224		1093
					0A 1F 0048B		BLSSU	81\$		
	FE	8F			51 91 0048D		CMPB	R1, #254		
					04 1A 00491		BGTRU	81\$		
	28	A8			20 82 00493	80\$:	SUBB2	#32, TERM_CHAR		1094
	18	A7			68 D1 00497	81\$:	CMPL	BUFFER_INDEX, AED_L_PAGEWIDTH		1099
					0F 18 0049B		BGEQ	82\$		
				02	A7 95 0049D		TSTB	AED_L_FLAGS+2		1100
					15 19 004A0		BLSS	83\$		
18	A7	00B8	C7	10	00 ED 004A2		CMPZV	#0, #16, SEGMENT_SIZE, AED_L_PAGEWIDTH		1101
					0B 19 004AA		BLSS	83\$		
					7E 7C 004AC	82\$:	CLRQ	-(SP)		1102
					7E D4 004AE		CLRL	-(SP)		
					58 DD 004B0		PUSHL	R8		
	0000G	CF			04 FB 004B2		CALLS	#4, AED_SEGSPLIT		
	04	A8			01 B0 004B7	83\$:	MOVW	#1, ECHO_DESC		1104
	08	A8			28 A8 9E 004BB		MOVAB	TERM_CHAR, ECHO_DESC+4		1105
				04	A8 9F 004C0		PUSHAB	ECHO_DESC		1106
		6A			01 FB 004C3		CALLS	#1, AED_PUTOUTPUT		
50		50			68 D0 004C6		MOVL	BUFFER_INDEX, R0		1111
		10			00 ED 004C9		CMPZV	#0, #16, SEGMENT_SIZE, R0		
					3E 15 004D0		BLEQ	84\$		
				02	A7 95 004D2		TSTB	AED_L_FLAGS+2		1112
					39 19 004D5		BLSS	84\$		
	04	A8	00B8	C7	50 A3 004D7		SUBW3	R0, SEGMENT_SIZE, ECHO_DESC		1115
		08	A8		00C4 C740 9E 004DE		MOVAB	INPUT_BUFFER[R0], ECHO_DESC+4		1116
					04 A8 9F 004E5		PUSHAB	ECHO_DESC		1117
		6A			01 FB 004E8		CALLS	#1, AED_PUTOUTPUT		
	7E	68			02 C1 004EB		ADDL3	#2, BUFFER_INDEX, -(SP)		1118
		7E			24 A7 9A 004EF		MOVZBL	AED_B_LINE, -(SP)		
		CF			02 FB 004F3		CALLS	#2, AED_SET_CURSOR		
	0000G	50			68 D0 004F8		MOVL	BUFFER_INDEX, R0		1119
		8F			50 C3 004FB		SUBL3	R0, #51, R1		1121
51	51	000001FF			04 A8 2C 00503		MOVCS	ECHO_DESC, INPUT_BUFFER[R0], #0, R1, -		
	00	00C4 C740			00C5 C740 0050C			INPUT_BUFFER+1[R0]		
				04	A8 9A 00510	84\$:	MOVZBL	TERM_CHAR, R1		1124
		5B			51 91 00514		CMPB	R1, #91		
		8F			04 12 00518		BNEQ	85\$		
					01 88 0051A		BISB2	#1, AED_L_FLAGS+2		
	02	A7			51 91 0051E	85\$:	CMPB	R1, #93		1125
	5D	8F			04 12 00522		BNEQ	86\$		
					01 8A 00524		BICB2	#1, AED_L_FLAGS+2		
	02	A7			00C4 C7 9E 00528	86\$:	MOVAB	INPUT_BUFFER, R0		
		50			51 90 0052D		MOVAB	R1, @BUFFER_INDEX[R0]		1129
	00	B840			68 D6 00532		INCL	BUFFER_INDEX		1130
					01 81 00534		ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN		1131
	20	A7			02 A7 95 00539		TSTB	AED_L_FLAGS+2		1135
					09 18 0053C		BGEQ	87\$		
68		00B8	C7	10	00 ED 0053E		CMPZV	#0, #16, SEGMENT_SIZE, BUFFER_INDEX		1136
					04 14 00545		BGTR	88\$		
					00B8 C7 B6 00547	87\$:	INCW	SEGMENT_SIZE		1137
					08 8A 0054B	88\$:	BICB2	#8, AED_L_FLAGS+1		1138
					FBE3 31 0054F		BRW	8\$		0768
					04 00552		RET			1144

; Routine Size: 1363 bytes, Routine Base: \$CODE\$ + 0000

AED\$MAIN
V04-000

AED_PROCESSACL - main processing loop

J 11
15-Sep-1984 23:47:14
14-Sep-1984 11:52:29

VAX-11 Bliss-32 V4.0-742
[ACLEDT.SRC]AEDMAIN.B32;1

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(3)

ACT_RUB_CHR - rubout a single character

```

696 1145 1 %SBTTL 'ACT RUB CHR - rubout a single character'
697 1146 1 ROUTINE ACT_RUB_CHR =
698 1147 1
699 1148 1 ++
700 1149 1
701 1150 1 FUNCTIONAL DESCRIPTION:
702 1151 1
703 1152 1 This routine deletes the character immediately preceeding the current
704 1153 1 cursor position. The deleted character is placed in storage for
705 1154 1 later retrieval.
706 1155 1
707 1156 1 CALLING SEQUENCE:
708 1157 1 ACT_RUB_CHR ( )
709 1158 1
710 1159 1 INPUT PARAMETERS:
711 1160 1 none
712 1161 1
713 1162 1 IMPLICIT INPUTS:
714 1163 1 OWN storage
715 1164 1
716 1165 1 OUTPUT PARAMETERS:
717 1166 1 none
718 1167 1
719 1168 1 IMPLICIT OUTPUTS:
720 1169 1 none
721 1170 1
722 1171 1 ROUTINE VALUE:
723 1172 1 1 if successful
724 1173 1 error status otherwise
725 1174 1
726 1175 1 SIDE EFFECTS:
727 1176 1 The line segment table is updated as necessary, ACE line pointers
728 1177 1 are updated, and the object's ACL is updated as necessary.
729 1178 1
730 1179 1 --
731 1180 1
732 1181 2 BEGIN
733 1182 2
734 1183 2 LOCAL
735 1184 2 PREV_LINE : REF $BBLOCK, ! Addr of previous segment
736 1185 2 COMBINED_LINE : REF $BBLOCK; ! Addr of combined segments
737 1186 2
738 1187 2 ! If the current ACE is marked as untouchable, no modifications are allowed.
739 1188 2
740 1189 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
741 1190 2 THEN
742 1191 3 BEGIN
743 1192 3 SIGNAL (AED$ NOMODIFY);
744 1193 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
745 1194 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
746 1195 3 TERM_CHAR = 0;
747 1196 3 RETURN 1;
748 1197 3 END;
749 1198 2 AED_L_FLAGS[AED_V_MODIFIED] = 1;
750 1199 2 AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
751 1200 2
752 1201 2 IF .BUFFER_INDEX GTR 0
```


00000000*	8F	14	A6	00	01	FB	0003B	CALLS	#1, LIB\$SIGNAL	
				66	03	E1	00042	BBC	#3, AED_L_FLAGS, 2\$	
				7E	A6	9A	00046	MOVZBL	AED_B_COLUMN, -(SP)	
				7E	A6	9A	0004A	MOVZBL	AED_B_LINE, -(SP)	
				68	02	FB	0004E	CALLS	#2, SCR\$SET_CURSOR	
				00000000*	8F	D5	00051	TSTL	#<AED\$_NOMODIFY&7>	
					10	13	00057	BEQL	3\$	
				03	00	ED	00059	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_NOMODIFY&7>	
					04	18	00063	BGEQ	3\$	
				14	A6	D0	00065	MOVL	R9, AED_L_WORSTERR	
					00A9	31	00069	BRW	10\$	1193
				66	80	8F	0006C	BISB2	#128, AED_L_FLAGS	1198
				01	A6	10	00070	BICB2	#16, AED_L_FLAGS+1	1199
				50		67	00074	MOVL	BUFFER_INDEX, R0	1201
						03	00077	BGTR	5\$	
					0090	31	00079	BRW	9\$	
				68	A6	C640	0007C	MOVB	INPUT_BUFFER-1[R0], AED_B_DEL_CHAR	1207
				5B	8F	A6	00083	CMPB	AED_B_DEL_CHAR, #91	1208
						04	00088	BNEQ	6\$	
				02	A6	01	0008A	BICB2	#1, AED_L_FLAGS+2	
				5D	8F	A6	0008E	CMPB	AED_B_DEL_CHAR, #93	1209
						04	00093	BNEQ	7\$	
				02	A6	01	00095	BICB2	#1, AED_L_FLAGS+2	
					7E	A6	00099	MOVZBL	AED_B_COLUMN, -(SP)	1210
						6E	0009D	DECL	(SP)	
					7E	A6	0009F	MOVZBL	AED_B_LINE, -(SP)	
				68		02	000A3	CALLS	#2, SCR\$SET_CURSOR	
				50		67	000A6	MOVL	BUFFER_INDEX, R0	1211
50	00B8	C6		10	00	ED	000A9	CMPZV	#0, #16, SEGMENT_SIZE, R0	
					2E	15	000B0	BLEQ	8\$	
	04	A7	00B8	C6	50	A3	000B2	SUBW3	R0, SEGMENT_SIZE, ECHO_DESC	1214
			08	A7	C640	9E	000B9	MOVAB	INPUT_BUFFER[R0], ECHO_DESC+4	1215
					04	A7	000C0	PUSHAB	ECHO_DESC	1216
			0000G	CF	01	FB	000C3	CALLS	#1, AED_PUTOUTPUT	
				50	67	D0	000C8	MOVL	BUFFER_INDEX, R0	1217
			51	00000201	50	C3	000CB	SUBL3	R0, #5T3, R1	1219
51	00	00C4	C640		04	A7	000D3	MOVC5	ECHO_DESC, INPUT_BUFFER[R0], #0, R1, -	
					00C3	C640	000DC		INPUT_BUFFER-1[R0]	
					67	D7	000E0	DECL	BUFFER_INDEX	1221
	20	A6		67	01	81	000E2	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	1222
					00B8	C6	000E7	DECW	SEGMENT_SIZE	1223
				7E	00B8	C6	000EB	MOVZWL	SEGMENT_SIZE, -(SP)	1224
						6E	000F0	INCL	(SP)	
				7E	24	A6	000F2	MOVZBL	AED_B_LINE, -(SP)	
			00000000G	00	02	FB	000F6	CALLS	#2, SCR\$ERASE_LINE	
				7E	20	A6	000FD	MOVZBL	AED_B_COLUMN, -(SP)	1225
				7E	24	A6	00101	MOVZBL	AED_B_LINE, -(SP)	
			0000G	CF	02	FB	00105	CALLS	#2, AED_SET_CURSOR	
					09	11	0010A	BRB	10\$	1201
					7E	D4	0010C	CLRL	-(SP)	1230
					57	DD	0010E	PUSHL	R7	
			0000G	CF	02	FB	00110	CALLS	#2, AED_SEGCOMBINE	
			01	A6	2008	8F	00115	BICW2	#8200, AED_L_FLAGS+1	1233
				50	28	A7	0011B	CLRB	TERM_CHAR	1234
						01	0011E	MOVL	#1, R0	1235
						04	00121	RET		1237

AED\$MAIN
V04-000

ACT_RUB_CHR - rubout a single character

; Routine Size: 290 bytes, Routine Base: \$CODE\$ + 0553

N 11
15-Sep-1984 23:47:14
14-Sep-1984 11:52:29

VAX-11 Bliss-32 V4.0-742
[ACLEDT.SRC]AEDMAIN.B32;1

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(4)

ACT_RUB_WRD - rubout previous word

```

: 790 1238 1 %SBTTL 'ACT RUB WRD - rubout previous word'
: 791 1239 1 ROUTINE ACT_RUB_WRD =
: 792 1240 1
: 793 1241 1 !++
: 794 1242 1
: 795 1243 1 FUNCTIONAL DESCRIPTION:
: 796 1244 1
: 797 1245 1 This routine deletes the word (all characters stopping with the first
: 798 1246 1 non alphanumeric character) immediately preceeding the current cursor
: 799 1247 1 position. The deleted word is placed in storage for later retrieval.
800 1248 1
801 1249 1 CALLING SEQUENCE:
802 1250 1 ACT_RUB_WRD ( )
803 1251 1
804 1252 1 INPUT PARAMETERS:
805 1253 1 none
806 1254 1
807 1255 1 IMPLICIT INPUTS:
808 1256 1 DOWN storage
809 1257 1
810 1258 1 OUTPUT PARAMETERS:
811 1259 1 none
812 1260 1
813 1261 1 IMPLICIT OUTPUTS:
814 1262 1 none
815 1263 1
816 1264 1 ROUTINE VALUE:
817 1265 1 1 if successful
818 1266 1 error status otherwise
819 1267 1
820 1268 1 SIDE EFFECTS:
821 1269 1 The line segment table is updated as necessary, ACE line pointers
822 1270 1 are updated, and the object's ACL is updated as necessary.
823 1271 1
824 1272 1 !--
825 1273 1
826 1274 2 BEGIN
827 1275 2
828 1276 2 LOCAL
829 1277 2 DEL_WORD_BEGIN, ! Beginning offset of word
830 1278 2 DEL_WORD_END; ! End offset of word
831 1279 2
832 1280 2 ! If the current ACE is marked as untouchable, no modifications are allowed.
833 1281 2
834 1282 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
835 1283 2 THEN
836 1284 3 BEGIN
837 1285 3 SIGNAL (AED$ NOMODIFY);
838 1286 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
839 1287 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
840 1288 3 TERM_CHAR = 0;
841 1289 3 RETURN 1;
842 1290 3 END;
843 1291 2
844 1292 2 ! Deallocate anything in the saved word buffer.
845 1293 2
846 1294 2 IF .AED_Q_DEL_WORD[DSCSW_LENGTH] NEQ 0
```


ACT RUB WRD - rubout previous word

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: 901
: 902
: 903

P 1295 2 THEN DEALLOCATE (.AED_Q_DEL_WORD[DSCSW_LENGTH],
1296 2 AED_Q_DEL_WORD[DSCSA_POINTER]);
1297 2 AED_Q_DEL_WORD[DSCSW_LENGTH] = 0;
1298 2
1299 2 AED_L_FLAGS[AED_V_MODIFIED] = 1; ! ACE has been modified
1300 2 AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
1301 2
1302 2 IF .BUFFER_INDEX GTR 0
1303 2 THEN
1304 2 BEGIN
1305 2
1306 2 ! Delete the previous word.
1307 2
1308 2 DEL_WORD_END = .BUFFER_INDEX;
1309 2 BUFFER_INDEX = .BUFFER_INDEX - 2; ! Backup over delimiter
1310 2 IF .BUFFER_INDEX GEQ 0
1311 2 THEN
1312 2 BEGIN
1313 2 WHILE (.BUFFER_CHAR GEQ 'A' AND .BUFFER_CHAR LEQ 'Z')
1314 2 OR (.BUFFER_CHAR GEQ '0' AND .BUFFER_CHAR LEQ '9')
1315 2 DO
1316 2 BEGIN
1317 2 BUFFER_INDEX = .BUFFER_INDEX - 1;
1318 2 IF .BUFFER_INDEX LSS 0 THEN EXITLOOP;
1319 2 END;
1320 2 END
1321 2 ELSE BUFFER_INDEX = -1;
1322 2 BUFFER_INDEX = .BUFFER_INDEX + 1; ! First char of word
1323 2 DEL_WORD_BEGIN = .BUFFER_INDEX;
1324 2 AED_B_COLUMN = .BUFFER_INDEX + 1;
1325 2 AED_Q_DEL_WORD[DSCSW_LENGTH] = .DEL_WORD_END - .DEL_WORD_BEGIN;
P 1326 2 AED_L_STATUS = ALLOCATE (.AED_Q_DEL_WORD[DSCSW_LENGTH],
1327 2 AED_Q_DEL_WORD[DSCSA_POINTER]);
1328 2
1329 2 IF NOT .AED_L_STATUS
1330 2 THEN
1331 2 BEGIN
1332 2 SIGNAL (.AED_L_STATUS);
1333 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
1334 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1335 2 TERM_CHAR = 0;
1336 2 RETURN 0;
1337 2 END;
1338 2 CH$MOVE (.AED_Q_DEL_WORD[DSCSW_LENGTH],
1339 2 INPUT_BUFFER[.DEL_WORD_BEGIN],
1340 2 .AED_Q_DEL_WORD[DSCSA_POINTER]);
1341 2 AED_L_FLAGS[AED_V RUBWORD] = 1;
1342 2 ECHO_DESC[DSCSW_LENGTH] = .SEGMENT_SIZE - .DEL_WORD_END;
1343 2 ECHO_DESC[DSCSA_POINTER] = INPUT_BUFFER[.DEL_WORD_END];
1344 2 IF .ECHO_DESC[DSCSW_LENGTH] GEQ 1
1345 2 THEN
1346 2 BEGIN
1347 2 SCR$SET CURSOR (.AED_B_LINE, .AED_B_COLUMN);
1348 2 AED_PUTOUTPUT (ECHO_DESC);
1349 2 END;
1350 2 CH$COPY (.ECHO_DESC[DSCSW_LENGTH], INPUT_BUFFER[.DEL_WORD_END],
1351 2 0
1352 2 512 - .BUFFER_INDEX, INPUT_BUFFER[.DEL_WORD_BEGIN]);
```



```
! End of routine ACT_RUB_WRD
```

						Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	: 1239
						.WORD	:
						SCR\$SET CURSOR, R11	:
						MOVAB BUFFER_INDEX, R10	:
						MOVAB AED_L_FLAGS, R9	:
						SUBL2 #4,-SP	:
						MOVL AED_L_FIRSTLINE, RO	: 1282
51	OA					BBC #4,-10(RO), 4S	:
12						BBC #3,AED_L_FLAGS, 1S	: 1285
						PUSHL #1	:
						PUSHL #21	:
						CALLS #2, SCR\$ERASE_PAGE	:
						PUSHL #1	:
						PUSHL #21	:
						CALLS #2, SCR\$SET CURSOR	:
						PUSHL #AED\$_NOMODIFY	:
						CALLS #1,LTBSSIGNAL	:
						BBC #3,AED L FLAGS, 2S	:
						MOVZBL AED_B_COLUMN, -(SP)	:
						MOVZBL AED_B_LINE, -(SP)	:
						CALLS #2,-SCR\$SET CURSOR	:
						TSTL #<AED\$_NOMODIFY&?>	:
						BEQL 3S	:
						CMPZV #0,#3,AED_L_WORSTERR, #<AED\$_NOMODIFY&?>	:
						BGEQ 3S	:
						MOVL #AED\$_NOMODIFY, AED_L_WORSTERR	:
						BRW 19S	: 1286
						MOVZWL AED_Q_DEL_WORD, RO	: 1294
						BEQL 5S	:
						PUSHAB AED_Q_DEL_WORD+4	: 1296
						MOVL RO,-4(SP)-	:
						PUSHAB 4(SP)	:
						CALLS #2, LIB\$FREE VM	:
						CLRW AED Q DEL WORD	: 1297
						BISB2 #128,-AED_L_FLAGS	: 1299
						BICB2 #16,AED C FLAGS+1	: 1300
						MOVL BUFFER_INDEX, RO	: 1302

				03	14	00095	BGTR	6\$		
				0132	31	00097	BRW	18\$		
		57		50	D0	0009A	6\$:	MOVL	R0, DEL_WORD_END	1308
		6A		02	C2	0009D		SUBL2	#2, BUFFER_INDEX	1309
				28	19	000A0		BLSS	10\$	1310
		50		6A	D0	000A2		MOVL	BUFFER_INDEX, R0	1313
		51		00C4	C940	9A 000A5	7\$:	MOVZBL	INPUT_BUFFER[R0], R1	
	41	8F		51	91	000AB		CMPB	R1, #85	
				06	1F	000AF		BLSSU	8\$	
	5A	8F		51	91	000B1		CMPB	R1, #90	
				0A	1B	000B5		BLEQU	9\$	
		30		51	91	000B7	8\$:	CMPB	R1, #48	1314
				11	1F	000BA		BLSSU	11\$	
		39		51	91	000BC		CMPB	R1, #57	
				0C	1A	000BF		BGTRU	11\$	
		50		6A	D7	000C1	9\$:	DECL	BUFFER_INDEX	1317
				6A	D0	000C3		MOVL	BUFFER_INDEX, R0	1318
				DD	18	000C6		BGEQ	7\$	
				03	11	000C8		BRB	11\$	
		6A		01	CE	000CA	10\$:	MNEGL	#1, BUFFER_INDEX	1321
				6A	D6	000CD	11\$:	INCL	BUFFER_INDEX	1322
		56		6A	D0	000CF		MOVL	BUFFER_INDEX, DEL_WORD_BEGIN	1323
20	A9	6A		01	81	000D2		ADDB3	#1, BUFFER_INDEX, -AED_B_COLUMN	1324
60	A9	57		56	A3	000D7		SUBW3	DEL_WORD_BEGIN, DEL_WORD_END, -	1325
									AED_Q_DEL_WORD	
				64	A9	9F 000DC		PUSHAB	AED_Q_DEL_WORD+4	1327
				60	A9	3C 000DF		MOVZWL	AED_Q_DEL_WORD, 4(SP)	
				04	AE	9F 000E4		PUSHAB	4(SP)	
		00000000G	00	02	FB	000E7		CALLS	#2, LIB\$GET_VM	
			58	50	D0	000EE		MOVL	R0, VM_STATUS	
			08	58	E9	000F1		BLBC	VM_STATUS, 12\$	
60	A9	00		00	2C	000F4		MOVC5	#0, (SP), #0, AED_Q_DEL_WORD, -	
				64	B9	000FA			AED_Q_DEL_WORD+4	
		008C	C9	58	D0	000FC	12\$:	MOVL	VM_STATUS, -AED_L_STATUS	
			57	008C	C9	E8 00101		BLBS	AED_L_STATUS, T6\$	1328
			69	03	E1	00106		BBC	#3, -AED_L_FLAGS, 13\$	1331
				01	DD	0010A		PUSHL	#1	
				15	DD	0010C		PUSHL	#21	
		00000000G	00	02	FB	0010E		CALLS	#2, SCR\$ERASE_PAGE	
				01	DD	00115		PUSHL	#1	
				15	DD	00117		PUSHL	#21	
		6B		02	FB	00119		CALLS	#2, SCR\$SET_CURSOR	
				008C	C9	DD 0011C	13\$:	PUSHL	AED_L_STATUS	
		00000000G	00	01	FB	00120		CALLS	#1, -LIB\$SIGNAL	
0B			69	03	E1	00127		BBC	#3, AED_L_FLAGS, 14\$	
			7E	20	A9	9A 0012B		MOVZBL	AED_B_COLUMN, -(SP)	
			7E	24	A9	9A 0012F		MOVZBL	AED_B_LINE, -(SP)	
		6B		02	FB	00133		CALLS	#2, SCR\$SET_CURSOR	
		50		008C	C9	D0 00136	14\$:	MOVL	AED_L_STATUS, R0	
		07		50	93	0013B		BITB	R0, #7	
				11	13	0013E		BEQL	15\$	
51		03		00	EF	00140		EXTZV	#0, #3, R0, R1	
51	14	03		00	ED	00145		CMPZV	#0, #3, AED_L_WORSTERR, R1	
				04	18	0014B		BGEQ	15\$	
		14	A9	50	D0	0014D		MOVL	R0, AED_L_WORSTERR	
		01	A9	2008	8F	AA 00151	15\$:	BICW2	#8200, AED_L_FLAGS+1	1333
				28	AA	94 00157		CLRB	TERM_CHAR	1334

64	B9	00C4	C946	60	0085	31	0015A	16\$:	BRW	20\$		1335
					A9	28	0015D		MOVC3	AED_Q_DEL_WORD, INPUT_BUFFER-		1339
		01	A9		02	88	00166		BISB2	[DEC_WORD-BEGIN], @AED_Q_DEL_WORD+4		1340
04	AA	00B8	C9		57	A3	0016A		SUBW3	#2, AED_L_FLAGS+1		1341
		08	AA	00C4	C947	9E	00171		MOVAB	DEL_WORD_END, SEGMENT_SIZE, ECHO_DESC		1342
				04	AA	B5	00178		TSTW	INPUT_BUFFER[DEL_WORD_END], ECHO_DESC+4		1343
					13	13	0017B		BEQL	ECHO_DESC		
		7E		20	A9	9A	0017D		MOVZBL	AED_B_COLUMN, -(SP)		1346
		7E		24	A9	9A	00181		MOVZBL	AED_B_LINE, -(SP)		
		6B			02	FB	00185		CALLS	#2, SCR\$SET_CURSOR		
				04	AA	9F	00188		PUSHAB	ECHO_DESC		1347
		0000G	CF		01	FB	0018B		CALLS	#1, AED_PUTOUTPUT		
50	00000200	8F			6A	C3	00190	17\$:	SUBL3	BUFFER_INDEX, #512, R0		1351
00	00C4	C947		04	AA	2C	00198		MOVC5	ECHO_DESC, INPUT_BUFFER[DEL_WORD_END], #0, -		
				00C4	C946		001A1			R0, INPUT_BUFFER[DEL_WORD-BEGIN]		
		00B8	C9	60	A9	A2	001A5		SUBW2	AED_Q_DEL_WORD, SEGMENT_SIZE		1352
			7E	00B8	C9	3C	001AB		MOVZWL	SEGMENT_SIZE, -(SP)		1353
					6E	D6	001B0		INCL	(SP)		
		7E		24	A9	9A	001B2		MOVZBL	AED_B_LINE, -(SP)		
	00000000G	00			02	FB	001B6		CALLS	#2, SCR\$ERASE_LINE		
		7E		20	A9	9A	001BD		MOVZBL	AED_B_COLUMN, -(SP)		1354
		7E		24	A9	9A	001C1		MOVZBL	AED_B_LINE, -(SP)		
	0000G	CF			02	FB	001C5		CALLS	#2, AED_SET_CURSOR		
					09	11	001CA		BRB	19\$		1302
					7E	D4	001CC	18\$:	CLRL	-(SP)		1359
					5A	DD	001CE		PUSHL	R10		
	0000G	CF			02	FB	001D0		CALLS	#2, AED_SEGCOMBINE		
	01	A9		2008	8F	AA	001D5	19\$:	BICW2	#8200, AED_L_FLAGS+1		1362
				28	AA	94	001DB		CLRB	TERM_CHAR		1363
		50			01	D0	001DE		MOVL	#1, R0		1364
					04	001E1			RET			
					50	D4	001E2	20\$:	CLRL	R0		1366
					04	001E4			RET			

; Routine Size: 485 bytes, Routine Base: \$CODE\$ + 0675

ACT_RUB_BOL - erase to beginning of line

```
: 920      1367 1 %SBTTL 'ACT RUB BOL - erase to beginning of line'
: 921      1368 1 ROUTINE ACT_RUB_BOL =
: 922      1369 1
: 923      1370 1 !++
: 924      1371 1
: 925      1372 1 FUNCTIONAL DESCRIPTION:
: 926      1373 1
: 927      1374 1     This routine deletes all characters between the current cursor
: 928      1375 1     position and the beginning of the line segment. These characters
: 929      1376 1     are NOT stored.
: 930      1377 1
: 931      1378 1 CALLING SEQUENCE:
: 932      1379 1     ACT_RUB_BOL ()
: 933      1380 1
: 934      1381 1 INPUT PARAMETERS:
: 935      1382 1     none
: 936      1383 1
: 937      1384 1 IMPLICIT INPUTS:
: 938      1385 1     OWN storage
: 939      1386 1
: 940      1387 1 OUTPUT PARAMETERS:
: 941      1388 1     none
: 942      1389 1
: 943      1390 1 IMPLICIT OUTPUTS:
: 944      1391 1     none
: 945      1392 1
: 946      1393 1 ROUTINE VALUE:
: 947      1394 1     1 if successful
: 948      1395 1     error status otherwise
: 949      1396 1
: 950      1397 1 SIDE EFFECTS:
: 951      1398 1     The line segment table is updated as necessary, ACE line pointers
: 952      1399 1     are updated, and the object's ACL is updated as necessary.
: 953      1400 1
: 954      1401 1 !--
: 955      1402 1
: 956      1403 2 BEGIN
: 957      1404 2
: 958      1405 2 ! If the current ACE is marked as untouchable, no modifications are allowed.
: 959      1406 2
: 960      1407 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
: 961      1408 2 THEN
: 962      1409 3 BEGIN
: 963      1410 3     SIGNAL (AED$ NOMODIFY);
: 964      1411 3     AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 965      1412 3     AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 966      1413 3     TERM_CHAR = 0;
: 967      1414 3     RETURN 1;
: 968      1415 3     END;
: 969      1416 2
: 970      1417 2 ! If at the beginning of the line, this is a no-op.
: 971      1418 2
: 972      1419 2 IF .BUFFER_INDEX EQL 0
: 973      1420 2 THEN
: 974      1421 3 BEGIN
: 975      1422 3     AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 976      1423 3     AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
```


ACT_RUB_BOL - erase to beginning of line

```

: 977      1424 3      TERM CHAR = 0;
: 978      1425 3      RETURN 1;
: 979      1426 3      END;
: 980      1427 2
: 981      1428 2      ! Deallocate anything in the saved line buffer.
: 982      1429 2
: 983      1430 2      IF .AED_Q_DEL_LINE[DSC$W_LENGTH] NEQ 0
: 984      1431 2      THEN DEALLOCATE (.AED_Q_DEL_LINE[DSC$W_LENGTH], .AED_Q_DEL_LINE[DSC$A_POINTER]);
: 985      1432 2      AED_Q_DEL_LINE[DSC$W_LENGTH] = 0;
: 986      1433 2
: 987      1434 2      ! Delete to the beginning of the line.
: 988      1435 2
: 989      1436 2      AED_L_FLAGS[AED_V_DELBOL] = 1;
: 990      1437 2
: 991      1438 2      AED_Q_DEL_LINE[DSC$W_LENGTH] = .BUFFER_INDEX;
: 992      1439 2      AED_L_STATUS = ALLOCATE (.AED_Q_DEL_LINE[DSC$W_LENGTH], AED_Q_DEL_LINE[DSC$A_POINTER]);
: 993      1440 2      IF NOT .AED_L_STATUS
: 994      1441 2      THEN
: 995      1442 2          BEGIN
: 996      1443 2              SIGNAL (.AED_L_STATUS);
: 997      1444 2              AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 998      1445 2              AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 999      1446 2              RETURN 0;
1000      1447 2          END;
1001      1448 2
1002      1449 2      ! Copy the deleted portion of the line.
1003      1450 2
1004      1451 2      CHSMOVE (.AED_Q_DEL_LINE[DSC$W_LENGTH], INPUT_BUFFER[0], .AED_Q_DEL_LINE[DSC$A_POINTER]);
1005      1452 2      SEGMENT_SIZE = .SEGMENT_SIZE - .BUFFER_INDEX;
1006      1453 2      CHSCOPY (.SEGMENT_SIZE, BUFFER_CHAR, 0, 512, INPUT_BUFFER);
1007      1454 2      BUFFER_INDEX = 0;
1008      1455 2
1009      1456 2      ! Echo any remaining portion of the line.
1010      1457 2
1011      1458 2      IF .SEGMENT_SIZE GTR 0
1012      1459 2      THEN
1013      1460 2          BEGIN
1014      1461 2              ECHO_DESC[DSC$W_LENGTH] = .SEGMENT_SIZE;
1015      1462 2              ECHO_DESC[DSC$A_POINTER] = BUFFER_CHAR;
1016      1463 2              SCR$SET CURSOR (.AED_B_LINE, 1);
1017      1464 2              AED_PUTOUTPUT (ECHO_DESC);
1018      1465 2          END;
1019      1466 2
1020      1467 2      ! Now clear the rest of the line.
1021      1468 2
1022      1469 2      SCR$ERASE LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
1023      1470 2      AED_SET_CURSOR (.AED_B_LINE, 1);
1024      1471 2
1025      1472 2      AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
1026      1473 2      AED_L_FLAGS[AED_V_MODIFIED] = 1;
1027      1474 2      AED_B_COLUMN = .BUFFER_INDEX + 1;
1028      1475 2      AED_L_FLAGS[AED_V_GOLDREY] = 0;
1029      1476 2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1030      1477 2      TERM CHAR = 0;
1031      1478 2      RETURN 1;
1032      1479 2
1033      1480 1      END;

```

! End of routine ACT_RUB_BOL


```
OFFC 00000 ACT_RUB_BOL:
5B 00000000G 8F D0 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 : 1368
5A 00000000G 00 9E 00009 MOVL #AED$ NOMODIFY, R11
59 00000000G 00 9E 00010 MOVAB SCR$ERASE_PAGE, R10
58 0000' CF 9E 00017 MOVAB SCR$SET_CURSOR, R9
57 0000' CF 9E 0001C MOVAB BUFFER_INDEX, R8
5E 0000' 04 C2 00021 MOVAB AED_L_FLAGS, R7
50 40 A7 D0 00024 SUBL2 #4, SP
45 0A A0 04 E1 00028 MOVL AED_L_FIRSTLINE, R0 : 1407
OE 67 03 E1 0002D BBC #4, 10(R0), 4$
01 DD 00031 BBC #3, AED_L_FLAGS, 1$ : 1410
15 DD 00033 PUSHL #1
6A 02 FB 00035 PUSHL #21
01 DD 00038 CALLS #2, SCR$ERASE_PAGE
15 DD 0003A PUSHL #1
69 02 FB 0003C CALLS #2, SCR$SET_CURSOR
00 5B DD 0003F 1$: PUSHL R11
OB 00000000G 00 01 FB 00041 CALLS #1, LIB$SIGNAL
67 03 E1 00048 BBC #3, AED_L_FLAGS, 2$
7E 20 A7 9A 0004C MOVZBL AED_B_COLUMN, -(SP)
7E 24 A7 9A 00050 MOVZBL AED_B_LINE, -(SP)
69 02 FB 00054 CALLS #2, SCR$SET_CURSOR
00000000* 8F D5 00057 2$: TSTL #<AED$ NOMODIFY&7>
00000000* 8F 10 13 0005D BEQL 3$
14 A7 03 00 ED 0005F CMPZV #0, #3, AED_L_WORSTERR, #<AED$ NOMODIFY&7>
14 A7 04 18 00069 BGEQ 3$
0111 31 0006F 3$: MOVL R11, AED_L_WORSTERR
68 D5 00072 4$: BRW 12$
F9 13 00074 TSTL BUFFER_INDEX
50 58 A7 3C 00076 BEQL 3$ : 1411
11 13 0007A MOVZWL AED_Q_DEL_LINE, R0 : 1419
5C A7 DD 0007C BEQL 5$ : 1430
04 AE 50 D0 0007F PUSHL AED_Q_DEL_LINE+4 : 1431
00000000G 00 04 AE 9F 00083 MOVL R0, 4(SP)
01 A7 58 A7 B4 0008D 5$: PUSHAB 4(SP)
58 A7 04 88 00090 CALLS #2, LIB$FREE_VM
5C A7 9F 00098 CLRW AED_Q_DEL_LINE
04 AE 58 A7 3C 0009B BISB2 #4, -AED_L_FLAGS+1 : 1432
00000000G 00 02 FB 000A3 MOVW BUFFER_INDEX, AED_Q_DEL_LINE : 1436
56 50 D0 000AA PUSHAB AED_Q_DEL_LINE+4 : 1438
08 56 E9 000AD MOVZWL AED_Q_DEL_LINE, 4(SP) : 1439
6E 00 00 2C 000B0 PUSHAB 4(SP)
58 A7 5C B7 000B6 CALLS #2, LIB$GET_VM
00000000G 00 02 FB 000A3 MOVL R0, VM_STATUS
56 50 D0 000AA BLBC VM_STATUS, 6$
58 A7 5C B7 000B6 MOVCS #0, (SP), #0, AED_Q_DEL_LINE, -
00000000G 00 02 FB 000A3 MOVL VM_STATUS, AED_L_STATUS : 1440
56 50 D0 000AA BLBS AED_L_STATUS, 7$
58 A7 5C B7 000B6 BBC #3, -AED_L_FLAGS, 7$ : 1443
00000000G 00 02 FB 000A3 PUSHL #1
```


51	51	14	50	03	00	EF	000F8	EXTZV	#0, #3, R0, R1			
			A7	03	00	ED	000FD	CMPZV	#0, #3, AED_L_WORSTERR, R1			
		14	A7	50	D0	00105	BGEQ	9\$				
		01	A7	2008	8F	AA	00109	9\$:			1445	
				7F	11	0010F	BRB	13\$			1446	
		5C	B7	00C4	C7	58	A7	28	00111	10\$:	1451	
				00B8	C7	68	A2	00119	SUBW2	AED_Q_DEL_LINE+4		
				50	00C4	C7	9E	0011E	MOVAB	BUFFER_INDEX, SEGMENT_SIZE	1452	
0200	8F		00	00	00B8	C7	2C	00123	MOVAB	INPUT_BUFFER, R0	1453	
					00C4	C7		0012E	MOVAB	SEGMENT_SIZE, @BUFFER_INDEX[R0], #0, #512, -		
				50	00B8	C7	D4	00131	CLRL	INPUT_BUFFER	1454	
						1F	15	00138	MOVZWL	SEGMENT_SIZE, R0	1458	
		04	A8	50	00C4	C7	9E	0013E	BLEQ	11\$		
			50	68	C1	00143	01	DD	00148	MOVW	R0, ECHO_DESC	1461
		08	A8	7E	24	A7	9A	0014A	MOVAB	INPUT_BUFFER, R0	1462	
				69	02	FB	0014E	ADDL3	BUFFER_INDEX, R0, ECHO_DESC+4		1463	
					04	A8	9F	00151	PUSHL	#1		
		0000G	CF	01	FB	00154	01	FB	00154	MOVZBL	AED_B_LINE, -(SP)	1464
			7E	00B8	C7	3C	00159	11\$:	CALLS	#2, -SCRSET_CURSOR	1469	
					6E	D6	0015E	INCL	(SP)			
		00000000G	7E	24	A7	9A	00160	MOVZBL	AED_B_LINE, -(SP)			
			00	02	FB	00164	01	DD	0016B	CALLS	#2, -SCRERASE_LINE	1470
			7E	24	A7	9A	0016D	PUSHL	#1			
		0000G	CF	02	FB	00171	01	DD	00176	MOVZBL	AED_B_LINE, -(SP)	
		01	A7	10	8A	00176	01	8A	00176	CALLS	#2, -AED SET_CURSOR	
			67	80	8F	88	0017A	BICB2	#16, AED_L_FLAGS+1		1472	
		20	A7	01	81	0017E	01	81	0017E	BISB2	#128, AED_L_FLAGS	1473
				2008	8F	AA	00183	12\$:	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	1474	
				28	A8	94	00189	BICW2	#8200, AED_L_FLAGS+1		1476	
			50	01	D0	0018C	01	D0	0018C	CLRB	TERM_CHAR	1477
					04	0018F	01	D0	0018C	MOVL	#1, R0	1478
					50	D4	00190	13\$:	RET			
					04	00192	04	00192	CLRL	R0	1480	
									RET			

; Routine Size: 403 bytes, Routine Base: \$CODE\$ + 085A

ACT_DEL_CHR - delete current character

```
: 1035 1481 1 XSBTTL 'ACT_DEL_CHR - delete current character'
: 1036 1482 1 ROUTINE ACT_DEL_CHR =
: 1037 1483 1
: 1038 1484 1 ++
: 1039 1485 1
: 1040 1486 1 FUNCTIONAL DESCRIPTION:
: 1041 1487 1
: 1042 1488 1 This routine deletes the character immediately under the current
: 1043 1489 1 cursor position. The deleted character is placed in storage for
: 1044 1490 1 later retrieval.
: 1045 1491 1
: 1046 1492 1 CALLING SEQUENCE:
: 1047 1493 1 ACT_DEL_CHR ( )
: 1048 1494 1
: 1049 1495 1 INPUT PARAMETERS:
: 1050 1496 1 none
: 1051 1497 1
: 1052 1498 1 IMPLICIT INPUTS:
: 1053 1499 1 OWN storage
: 1054 1500 1
: 1055 1501 1 OUTPUT PARAMETERS:
: 1056 1502 1 none
: 1057 1503 1
: 1058 1504 1 IMPLICIT OUTPUTS:
: 1059 1505 1 none
: 1060 1506 1
: 1061 1507 1 ROUTINE VALUE:
: 1062 1508 1 1 if successful
: 1063 1509 1 error status otherwise
: 1064 1510 1
: 1065 1511 1 SIDE EFFECTS:
: 1066 1512 1 The line segment table is updated as necessary, ACE line pointers
: 1067 1513 1 are updated, and the object's ACL is updated as necessary.
: 1068 1514 1
: 1069 1515 1 --
: 1070 1516 1
: 1071 1517 2 BEGIN
: 1072 1518 2
: 1073 1519 2 ! If the current ACE is marked as untouchable, no modifications are allowed.
: 1074 1520 2
: 1075 1521 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
: 1076 1522 2 THEN
: 1077 1523 2 BEGIN
: 1078 1524 2 SIGNAL (AED$ NOMODIFY);
: 1079 1525 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1080 1526 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1081 1527 2 TERM CHAR = 0;
: 1082 1528 2 RETURN 1;
: 1083 1529 2 END;
: 1084 1530 2
: 1085 1531 2 ! Delete the character.
: 1086 1532 2
: 1087 1533 2 AED_B_DEL_CHAR = 0;
: 1088 1534 2
: 1089 1535 2 AED_L_FLAGS[AED_V_MODIFIED] = 1;
: 1090 1536 2 AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
: 1091 1537 2
```



```
! End of routine ACT_DEL_CHR
```

[illegible]

		68	A6	94	0006C	4\$:	CLRB	AED_B_DEL_CHAR	1533
		80	8F	88	0006F		BISB2	#128, AED_L_FLAGS	1535
01	66		10	8A	00073		BICB2	#16, AED_L_FLAGS+1	1536
	A6	00B8	C6	3C	00077		MOVZWL	SEGMENT_SIZE, R1	1538
	51		71	15	0007C		BLEQ	7\$	
	51		67	D1	0007E		CMPL	BUFFER_INDEX, R1	1539
			6C	18	00081		BGEQ	7\$	
	50		67	D0	00083		MOVL	BUFFER_INDEX, R0	1542
68	A6	00C4	C640	90	00086		MOVB	INPUT_BUFFER[R0], AED_B_DEL_CHAR	
5D	8F	68	A6	91	0008D		CMPB	AED_B_DEL_CHAR, #93	1543
			04	12	00092		BNEQ	5\$	
02	A6		01	88	00094		BISB2	#1, AED_L_FLAGS+2	
	51		50	C2	00098	5\$:	SUBL2	R0, R1	1544
04	A7		01	A3	0009B		SUBW3	#1, R1, ECHO_DESC	
08	A7	00C5	C640	9E	000A0		MOVAB	INPUT_BUFFER+1[R0], ECHO_DESC+4	1545
		04	A7	B5	000A7		TSTW	ECHO_DESC	1546
			08	13	000AA		BEQL	6\$	
		04	A7	9F	000AC		PUSHAB	ECHO_DESC	1547
0000G	CF		01	FB	000AF		CALLS	#1, AED_PUTOUTPUT	
	7E	00B8	C6	3C	000B4	6\$:	MOVZWL	SEGMENT_SIZE, -(SP)	1548
	7E	24	A6	9A	000B9		MOVZBL	AED_B_LINE, -(SP)	
00000000G	00		02	FB	000BD		CALLS	#2, SCRSErase_LINE	
	7E	20	A6	9A	000C4		MOVZBL	AED_B_COLUMN, -(SP)	1549
	7E	24	A6	9A	000C8		MOVZBL	AED_B_LINE, -(SP)	
0000G	CF		02	FB	000CC		CALLS	#2, AED_SET_CURSOR	
	50		67	D0	000D1		MOVL	BUFFER_INDEX, R0	1550
51	00000200		50	C3	000D4		SUBL3	R0, #512, R1	1552
00	00C5	C640	04	A7	2C	000DC	MOVC5	ECHO_DESC, INPUT_BUFFER+1[R0], #0, R1, -	
			00C4	C640		000E5		INPUT_BUFFER[R0]	
		00B8	C6	B7	000E9		DECW	SEGMENT_SIZE	1553
			09	11	000ED		BRB	8\$	1538
			01	DD	000EF	7\$:	PUSHL	#1	1555
			57	DD	000F1		PUSHL	R7	
0000G	CF		02	FB	000F3		CALLS	#2, AED_SEGCOMBINE	
01	A6	2008	8F	AA	000F8	8\$:	BICW2	#8200, AED_L_FLAGS+1	1558
		28	A7	94	000FE		CLRB	TERM_CHAR	1559
	50		01	D0	00101		MOVL	#1, R0	1560
			04	00104			RET		1562

; Routine Size: 261 bytes, Routine Base: \$CODE\$ + 09ED

ACT_DEL_WRD - delete current word

```
: 1118 1563 1 %SBTTL 'ACT_DEL_WRD - delete current word'
: 1119 1564 1 ROUTINE ACT_DEL_WRD =
: 1120 1565 1
: 1121 1566 1 !++
: 1122 1567 1
: 1123 1568 1 FUNCTIONAL DESCRIPTION:
: 1124 1569 1
: 1125 1570 1 This routine deletes the word (all characters until the first non
: 1126 1571 1 alphanumeric character) starting at the current cursor position.
: 1127 1572 1 The deleted word is placed in storage for later retrieval.
: 1128 1573 1
: 1129 1574 1 CALLING SEQUENCE:
: 1130 1575 1 ACT_DEL_WRD ()
: 1131 1576 1
: 1132 1577 1 INPUT PARAMETERS:
: 1133 1578 1 none
: 1134 1579 1
: 1135 1580 1 IMPLICIT INPUTS:
: 1136 1581 1 OWN storage
: 1137 1582 1
: 1138 1583 1 OUTPUT PARAMETERS:
: 1139 1584 1 none
: 1140 1585 1
: 1141 1586 1 IMPLICIT OUTPUTS:
: 1142 1587 1 none
: 1143 1588 1
: 1144 1589 1 ROUTINE VALUE:
: 1145 1590 1 1 if successful
: 1146 1591 1 error status otherwise
: 1147 1592 1
: 1148 1593 1 SIDE EFFECTS:
: 1149 1594 1 The line segment table is updated as necessary, ACE line pointers
: 1150 1595 1 are updated, and the object's ACL is updated as necessary.
: 1151 1596 1
: 1152 1597 1 --
: 1153 1598 1
: 1154 1599 2 BEGIN
: 1155 1600 2
: 1156 1601 2 LOCAL
: 1157 1602 2 DEL_WORD_BEGIN, ! Beginning offset of word
: 1158 1603 2 DEL_WORD_END; ! End offset of word
: 1159 1604 2
: 1160 1605 2 ! If the current ACE is marked as untouchable, no modifications are allowed.
: 1161 1606 2
: 1162 1607 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
: 1163 1608 2 THEN
: 1164 1609 3 BEGIN
: 1165 1610 3 SIGNAL (AED$ NOMODIFY);
: 1166 1611 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1167 1612 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1168 1613 3 TERM CHAR = 0;
: 1169 1614 3 RETURN 1;
: 1170 1615 2 END;
: 1171 1616 2
: 1172 1617 2 ! Deallocate anything in the saved word buffer.
: 1173 1618 2
: 1174 1619 2 IF .AED_Q_DEL_WORD[DSCSW_LENGTH] NEQ 0
```


ACT_DEL_WRD - delete current word

```
: 1175      1620 2 THEN DEALLOCATE (.AED_Q_DEL_WORD[DSC$W_LENGTH], AED_Q_DEL_WORD[DSC$A_POINTER]);
: 1176      1621 2 AED_Q_DEL_WORD[DSC$W_LENGTH] = 0;
: 1177      1622 2
: 1178      1623 2 AED_L_FLAGS[AED_V_MODIFIED] = 1;
: 1179      1624 2 AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
: 1180      1625 2
: 1181      1626 2 ! Delete the word.
: 1182      1627 2
: 1183      1628 2 IF .SEGMENT_SIZE GTR 0
: 1184      1629 2 AND .BUFFER_INDEX LSS .SEGMENT_SIZE
: 1185      1630 2 THEN
: 1186      1631 3 BEGIN
: 1187      1632 3 DEL_WORD_BEGIN = .BUFFER_INDEX;
: 1188      1633 4 WHILE (.BUFFER_CHAR GEQ 'A' AND .BUFFER_CHAR LEQ 'Z')
: 1189      1634 4 OR (.BUFFER_CHAR GEQ '0' AND .BUFFER_CHAR LEQ '9')
: 1190      1635 3 DO
: 1191      1636 4 BEGIN
: 1192      1637 4 BUFFER_INDEX = .BUFFER_INDEX + 1;
: 1193      1638 4 IF .BUFFER_INDEX GEQ .SEGMENT_SIZE
: 1194      1639 4 THEN
: 1195      1640 5 BEGIN
: 1196      1641 5 BUFFER_INDEX = .BUFFER_INDEX - 1;
: 1197      1642 5 EXITLOOP;
: 1198      1643 5 END;
: 1199      1644 4 END;
: 1200      1645 3 BUFFER_INDEX = .BUFFER_INDEX + 1; ! First char past delimiter
: 1201      1646 3 DEL_WORD_END = .BUFFER_INDEX;
: 1202      1647 3 AED_Q_DEL_WORD[DSC$W_LENGTH] = .DEL_WORD_END - .DEL_WORD_BEGIN;
: 1203      1648 3 AED_L_STATUS = ALLOCATE (.AED_Q_DEL_WORD[DSC$W_LENGTH],
P      1649 3 AED_Q_DEL_WORD[DSC$A_POINTER]);
: 1204      1650 3
: 1205      1651 3 IF NOT .AED_L_STATUS
: 1206      1652 3 THEN
: 1207      1653 4 BEGIN
: 1208      1654 4 SIGNAL (.AED_L_STATUS);
: 1209      1655 4 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1210      1656 4 RETURN 0;
: 1211      1657 3 END;
: 1212      1658 3 CH$MOVE (.AED_Q_DEL_WORD[DSC$W_LENGTH],
: 1213      1659 3 INPUT_BUFFER[.DEL_WORD_BEGIN],
: 1214      1660 3 .AED_Q_DEL_WORD[DSC$A_POINTER]);
: 1215      1661 3 AED_L_FLAGS[AED_V_ROBWORD] = 0;
: 1216      1662 3 ECHO_DESC[DSC$W_LENGTH] = .SEGMENT_SIZE - .DEL_WORD_END;
: 1217      1663 3 ECHO_DESC[DSC$A_POINTER] = INPUT_BUFFER[.DEL_WORD_END];
: 1218      1664 3 SEGMENT_SIZE = .SEGMENT_SIZE - .AED_Q_DEL_WORD[DSC$W_LENGTH];
: 1219      1665 3 IF .ECHO_DESC[DSC$W_LENGTH] GEQ 1
: 1220      1666 3 THEN
: 1221      1667 4 BEGIN
: 1222      1668 4 SCR$SET CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 1223      1669 4 AED_PUTOUTPUT (ECHO_DESC);
: 1224      1670 3 END;
: 1225      1671 3 CH$COPY (.ECHO_DESC[DSC$W_LENGTH], INPUT_BUFFER[.DEL_WORD_END],
: 1226      1672 3 0,
: 1227      1673 3 512 - .BUFFER_INDEX, INPUT_BUFFER[.DEL_WORD_BEGIN]);
: 1228      1674 3 BUFFER_INDEX = .DEL_WORD_BEGIN;
: 1229      1675 3 SCR$ERASE LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
: 1230      1676 3 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 1231      1677 3 END
```



```
: 1232
: 1233
: 1234
: 1235
: 1236
: 1237
: 1238
: 1239

1677 2 ELSE AED_SEGCOMBINE (BUFFER_INDEX, 1);
1678 2
1679 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
1680 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1681 2 TERM_CHAR = 0;
1682 2 RETURN 1;
1683 2
1684 1 END;
```

! End of routine ACT_DEL_WRD

				OFFC 00000 ACT_DEL_WRD:						
			5B	00000000G	00	9E	00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	: 1564
			5A	0000'	CF	9E	00009	MOVAB	SCR\$SET CURSOR, R11	
			59	0000'	CF	9E	0000E	MOVAB	BUFFER_INDEX, R10	
			5E		04	C2	00013	MOVAB	AED_L_FLAGS, R9	
			50	40	A9	D0	00016	SUBL2	#4, -SP	
51	0A		A0		04	E1	0001A	MOVL	AED_L_FIRSTLINE, R0	: 1607
12			69		03	E1	0001F	BBC	#4, -10(R0), 4\$	
					01	DD	00023	BBC	#3, AED_L_FLAGS, 1\$	: 1610
					15	DD	00025	PUSHL	#1	
		00000000G	00		02	FB	00027	PUSHL	#21	
					01	DD	0002E	CALLS	#2, SCR\$ERASE_PAGE	
					15	DD	00030	PUSHL	#1	
			6B		02	FB	00032	PUSHL	#21	
		00000000G	00	00000000G	8F	DD	00035	CALLS	#2, SCR\$SET CURSOR	
	0B		69		01	FB	0003B	PUSHL	#AED\$ NOMODIFY	
			7E	20	03	E1	00042	CALLS	#1, LIB\$SIGNAL	
			7E	24	A9	9A	00046	BBC	#3, AED_L_FLAGS, 2\$	
			6B		A9	9A	0004A	MOVZBL	AED_B_COLUMN, -(SP)	
					02	FB	0004E	MOVZBL	AED_B_LINE, -(SP)	
		00000000*			8F	D5	00051	CALLS	#2, SCR\$SET CURSOR	
					14	13	00057	TSTL	#<AED\$ NOMODIFY&7>	
00000000*	8F	14	A9		00	ED	00059	BEQL	3\$	
					08	18	00063	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$ NOMODIFY&7>	
		14	A9	00000000G	8F	D0	00065	BGEQ	3\$	
					015E	31	0006D	MOVL	#AED\$ NOMODIFY, AED_L_WORSTERR	
		50	60		A9	3C	00070	BRW	19\$	: 1611
					11	13	00074	MOVZWL	AED_Q_DEL_WORD, R0	: 1619
			64		A9	9F	00076	BEQL	5\$	
	04	AE			50	D0	00079	PUSHAB	AED_Q_DEL_WORD+4	: 1620
			04		AE	9F	0007D	MOVL	R0, -4(SP)	
		00000000G	00		02	FB	00080	PUSHAB	4(SP)	
			60		A9	B4	00087	CALLS	#2, LIB\$FREE VM	
			69	80	8F	88	0008A	CLRW	AED_Q_DEL_WORD	: 1621
	01		A9		10	8A	0008E	BISB2	#128, AED_L_FLAGS	: 1623
			51	00B8	C9	3C	00092	BICB2	#16, AED_C_FLAGS+1	: 1624
					03	14	00097	MOVZWL	SEGMENT_SIZE, R1	: 1628
					0129	31	00099	BGTR	7\$	
		51			6A	D1	0009C	BRW	18\$	
					F8	18	0009F	CMP	BUFFER_INDEX, R1	: 1629
		57			6A	D0	000A1	BGEQ	6\$	
		50	00C4		C9	9E	000A4	MOVL	BUFFER_INDEX, DEL_WORD_BEGIN	: 1632
		50	00	BA40	9A	000A9		MOVAB	INPUT_BUFFER, R0	: 1633
								MOVZBL	@BUFFER_INDEX[R0], R0	

		41	8F		50	91	000AE	CMPB	R0, #65		
		5A	8F		06	1F	000B2	BLSSU	9\$		
					50	91	000B4	CMPB	R0, #90		
			30		0A	1B	000B3	BLEQU	10\$		
					50	91	000EA	CMPB	R0, #48	1634	
			39		0E	1F	000BD	BLSSU	11\$		
					50	91	000BF	CMPB	R0, #57		
					09	1A	000C2	BGTRU	11\$		
			51		6A	D6	000C4	INCL	BUFFER_INDEX	1637	
					6A	D1	000C6	CMPL	BUFFER_INDEX, R1	1638	
					D9	19	000C9	BLSS	8\$		
					6A	D7	000CB	DECL	BUFFER_INDEX	1641	
					6A	D6	000CD	INCL	BUFFER_INDEX	1645	
			56		6A	D0	000CF	MOVL	BUFFER_INDEX, DEL_WORD_END	1646	
60	A9		56		57	A3	000D2	SUBW3	DEL_WORD_BEGIN, DEL_WORD_END, -	1647	
									AED_Q_DEL_WORD		
				64	A9	9F	000D7	PUSHAB	AED_Q_DEL_WORD+4	1649	
		04	AE	60	A9	3C	000DA	MOVZWL	AED_Q_DEL_WORD, 4(SP)		
				04	AE	9F	000DF	PUSHAB	4(SP)		
		00000000G	00		02	FB	000E2	CALLS	#2, LIB\$GET_VM		
			58		50	D0	000E9	MOVL	R0, VM_STATUS		
			08		58	E9	000EC	BLBC	VM_STATUS, 12\$		
60	A9		6E		00	2C	000EF	MOVCS	#0, (SP), #0, AED_Q_DEL_WORD, -		
				64	B9		000F5		AED_Q_DEL_WORD+4		
		008C	C9		58	D0	000F7	12\$:	MOVL	VM_STATUS, AED_L_STATUS	
			52	008C	C9	E8	000FC		AED_L_STATUS, 16\$	1650	
		12	69		03	E1	00101		#3, AED_L_FLAGS, 13\$	1653	
					01	DD	00105	PUSHL	#1		
					15	DD	00107	PUSHL	#21		
		00000000G	00		02	FB	00109	CALLS	#2, SCR\$ERASE_PAGE		
					01	DD	00110	PUSHL	#1		
			6B		15	DD	00112	PUSHL	#21		
				008C	02	FB	00114	CALLS	#2, SCR\$SET_CURSOR		
		00000000G	00		C9	DD	00117	13\$:	PUSHL	AED_L_STATUS	
		0B	69		01	FB	0011B	CALLS	#1, LIB\$SIGNAL		
			7E		03	E1	00122	BBC	#3, AED_L_FLAGS, 14\$		
			7E	20	A9	9A	00126	MOVZBL	AED_B_COLUMN, -(SP)		
			6B	24	A9	9A	0012A	MOVZBL	AED_B_LINE, -(SP)		
			50		02	FB	0012E	CALLS	#2, SCR\$SET_CURSOR		
			07	008C	C9	D0	00131	14\$:	MOVL	AED_L_STATUS, R0	
					50	93	00136	BITB	R0, #7		
					11	13	00139	BEQL	15\$		
51			03		00	EF	0013B	EXTZV	#0, #3, R0, R1		
51	14	50	03		00	ED	00140	CMPZV	#0, #3, AED_L_WORSTERR, R1		
					04	18	00146	BGEQ	15\$		
		14	A9		50	D0	00148	MOVL	R0, AED_L_WORSTERR		
		01	A9		08	8A	0014C	15\$:	BICB2	#8, AED_L_FLAGS+1	1654
					0088	31	00150	BRW	20\$	1655	
		64	B9	00C4	C947	60	A9	28	00153	16\$:	
									AED_Q_DEL_WORD, INPUT_BUFFER-	1659	
									[DEL_WORD_BEGIN], AED_Q_DEL_WORD+4		
		01	A9		02	8A	0015C	BICB2	#2, AED_L_FLAGS+1	1660	
		00B8	C9		56	A3	00160	SUBW3	DEL_WORD_END, SEGMENT_SIZE, ECHO_DESC	1661	
		08	AA	00C4	C946	9E	00167	MOVAB	INPUT_BUFFER[DEL_WORD_END], ECHO_DESC+4	1662	
		00B8	C9	60	A9	A2	0016E	SUBW2	AED_Q_DEL_WORD, SEGMENT_SIZE	1663	
				04	AA	B5	00174	TSTW	ECHO_DESC	1664	
					13	13	00177	BEQL	17\$		
			7E	20	A9	9A	00179	MOVZBL	AED_B_COLUMN, -(SP)	1667	

	7E	24	A9	9A	0017D	MOVZBL	AED_B_LINE, -(SP)		
	6B		02	FB	00181	CALLS	#2, SCR\$SET_CURSOR		
		04	AA	9F	00184	PUSHAB	ECHO_DESC		1668
	0000G		01	FB	00187	CALLS	#1, AED_PUTOUTPUT		
50	00000200		6A	C3	0018C	SUBL3	BUFFER_INDEX, #512, R0		1672
00	00C4 C946		AA	2C	00194	MOVC5	ECHO_DESC, INPUT_BUFFER[DEL_WORD-END], #0, -		
		04			0019D		R0, INPUT_BUFFER[DEL_WORD-BEGIN]-END]		
	6A		57	D0	001A1	MOVL	DEL_WORD_BEGIN, BUFFER_INDEX		1673
	7E	00B8	C9	3C	001A4	MOVZWL	SEGMENT_SIZE, -(SP)		1674
			6E	D6	001A9	INCL	(SP)		
	7E	24	A9	9A	001AB	MOVZBL	AED_B_LINE, -(SP)		
	00000000G		02	FB	001AF	CALLS	#2, SCR\$ERASE_LINE		
	7E	20	A9	9A	001B6	MOVZBL	AED_B_COLUMN, -(SP)		1675
	7E	24	A9	9A	001BA	MOVZBL	AED_B_LINE, -(SP)		
	0000G		02	FB	001BE	CALLS	#2, AED_SET_CURSOR		
			09	11	001C3	BRB	19\$		1628
			01	DD	001C5	PUSHL	#1		1677
			5A	DD	001C7	PUSHL	R10		
	0000G		02	FB	001C9	CALLS	#2, AED_SEGCOMBINE		
	01		8F	AA	001CE	BICW2	#8200, AED_L_FLAGS+1		1680
		2008	AA	94	001D4	CLRB	TERM_CHAR		1681
		28	01	D0	001D7	MOVL	#1, R0		1682
				04	001DA	RET			
			50	D4	001DB	CLRL	R0		1684
				04	001DD	RET			

; Routine Size: 478 bytes, Routine Base: \$CODE\$ + 0AF2

ACT_DEL_EOL - delete to end of line

```
: 1241 1685 1 %SBTTL 'ACT_DEL_EOL - delete to end of line'
: 1242 1686 1 ROUTINE ACT_DEL_EOL =
: 1243 1687 1
: 1244 1688 1 ++
: 1245 1689 1
: 1246 1690 1 FUNCTIONAL DESCRIPTION:
: 1247 1691 1
: 1248 1692 1 This routine deletes from the current position in the line to the
: 1249 1693 1 end of the current line segment.
: 1250 1694 1
: 1251 1695 1 CALLING SEQUENCE:
: 1252 1696 1 ACT_DEL_EOL ()
: 1253 1697 1
: 1254 1698 1 INPUT PARAMETERS:
: 1255 1699 1 none
: 1256 1700 1
: 1257 1701 1 IMPLICIT INPUTS:
: 1258 1702 1 OWN storage
: 1259 1703 1
: 1260 1704 1 OUTPUT PARAMETERS:
: 1261 1705 1 none
: 1262 1706 1
: 1263 1707 1 IMPLICIT OUTPUTS:
: 1264 1708 1 none
: 1265 1709 1
: 1266 1710 1 ROUTINE VALUE:
: 1267 1711 1 1 if successful
: 1268 1712 1 error status otherwise
: 1269 1713 1
: 1270 1714 1 SIDE EFFECTS:
: 1271 1715 1 The line segment table is updated as necessary.
: 1272 1716 1
: 1273 1717 1 --
: 1274 1718 1
: 1275 1719 2 BEGIN
: 1276 1720 2
: 1277 1721 2 ! Check to see if the ACE is untouchable. If so, it cannot be modified.
: 1278 1722 2
: 1279 1723 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
: 1280 1724 2 THEN
: 1281 1725 3 BEGIN
: 1282 1726 3 SIGNAL (AED$ NOMODIFY);
: 1283 1727 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1284 1728 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1285 1729 3 TERM_CHAR = 0;
: 1286 1730 3 RETURN 1;
: 1287 1731 2 END;
: 1288 1732 2
: 1289 1733 2 ! Delete anything currently in the saved line buffer.
: 1290 1734 2
: 1291 1735 2 IF .AED_Q_DEL_LINE[DSCSW_LENGTH] NEQ 0
: 1292 1736 2 THEN DEALLOCATE (.AED_Q_DEL_LINE[DSCSW_LENGTH], .AED_Q_DEL_LINE[DSCSA_POINTER]);
: 1293 1737 2 AED_Q_DEL_LINE[DSCSW_LENGTH] = 0;
: 1294 1738 2
: 1295 1739 2 ! Note that the line has been modified.
: 1296 1740 2
: 1297 1741 2 AED_L_FLAGS[AED_V_MODIFIED] = 1;
```


ACT_DEL_EOL - delete to end of line

```
: 1298      1742 2 AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
: 1299      1743 2
: 1300      1744 2 ! Delete to the end of the line.
: 1301      1745 2
: 1302      1746 2 AED_L_FLAGS[AED_V_DELBOL] = 0;          ! Note direction of delete
: 1303      1747 2
: 1304      1748 2 IF .SEGMENT_SIZE GTR 0
: 1305      1749 2 AND .BUFFER_INDEX LSS .SEGMENT_SIZE
: 1306      1750 2 THEN
: 1307      1751 2 BEGIN
: 1308      1752 2 AED_L_STATUS = ALLOCATE ((.SEGMENT_SIZE - .BUFFER_INDEX),
: 1309      1753 2 AED_Q_DEL_LINE[DSC$A_POINTER]);
: 1310      1754 2 IF NOT .AED_L_STATUS
: 1311      1755 2 THEN
: 1312      1756 2 BEGIN
: 1313      1757 2 SIGNAL (.AED_L_STATUS);
: 1314      1758 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1315      1759 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1316      1760 2 TERM_CHAR = 0;
: 1317      1761 2 RETURN 0;
: 1318      1762 2 END;
: 1319      1763 2 AED_Q_DEL_LINE[DSC$W_LENGTH] = .SEGMENT_SIZE - .BUFFER_INDEX;
: 1320      1764 2 CH$MOVE (.AED_Q_DEL_LINE[DSC$W_LENGTH], INPUT_BUFFER[.BUFFER_INDEX],
: 1321      1765 2 AED_Q_DEL_LINE[DSC$A_POINTER]);
: 1322      1766 2 SEGMENT_SIZE = .BUFFER_INDEX;
: 1323      1767 2 SCR$ERASE_LINE (.AED_B_LINE, .AED_B_COLUMN);
: 1324      1768 2 END
: 1325      1769 2 ELSE AED_SEGCOMBINE (BUFFER_INDEX, 1);
: 1326      1770 2
: 1327      1771 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1328      1772 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1329      1773 2 TERM_CHAR = 0;
: 1330      1774 2 RETURN 1;
: 1331      1775 2
: 1332      1776 1 END;
```

OFFC 00000 ACT_DEL_EOL:

5B	00000000G	8F	D0	00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	1686
5A	00000000G	00	9E	00009	MOVL	#AED\$ NOMODIFY, R11	
59	0000'0000'	CF	9E	00010	MOVAB	SCR\$ERASE_PAGE, R10	
58	00000000G	00	9E	00015	MOVAB	BUFFER_INDEX, R9	
57	0000'0000'	CF	9E	0001C	MOVAB	SCR\$SET_CURSOR, R8	
5E		04	C2	00021	SUBL2	#4, -SP	
50	40	A7	D0	00024	MOVL	AED_L_FIRSTLINE, R0	1723
45	0A	04	E1	00028	BBC	#4, -10(R0), 4\$	
0E		03	E1	0002D	BBC	#3, AED_L_FLAGS, 1\$	1726
		01	DD	00031	PUSHL	#1	
		15	DD	00033	PUSHL	#21	
6A		02	FB	00035	CALLS	#2, SCR\$ERASE_PAGE	
		01	DD	00038	PUSHL	#1	
		15	DD	0003A	PUSHL	#21	
68		02	FB	0003C	CALLS	#2, SCR\$SET_CURSOR	

00000000*	8F	14	A7	03	00	5B	DD	0003F	1\$:	PUSHL	R11		
					67	01	FB	00041		CALLS	#1, LIB\$SIGNAL		
					7E	03	E1	00048		BBC	#3, AED_L_FLAGS, 2\$		
					7E	A7	9A	0004C		MOVZBL	AED_B_COLUMN, -(SP)		
					68	A7	9A	00050		MOVZBL	AED_B_LINE, -(SP)		
						02	FB	00054		CALLS	#2, SCR\$SET_CURSOR		
						8F	D5	00057	2\$:	TSTL	#<AED\$_NOMODIFY&7>		
						10	13	0005D		BEQL	3\$		
						00	ED	0005F		CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_NOMODIFY&7>		
						04	18	00069		BGEQ	3\$		
						5B	D0	0006B		MOVL	R11, AED_L_WORSTERR		
						00E6	31	0006F	3\$:	BRW	14\$		1727
						50	A7	3C	00072	4\$:	MOVZWL	AED_Q_DEL_LINE, R0	1735
							11	13	00076		BEQL	5\$	
							A7	DD	00078		PUSHL	AED_Q_DEL_LINE+4	1736
							50	D0	0007B		MOVL	R0, -4(SP)	
							AE	9F	0007F		PUSHAB	4(SP)	
							02	FB	00082		CALLS	#2, LIB\$FREE_VM	
							A7	B4	00089	5\$:	CLRW	AED_Q_DEL_LINE	1737
							8F	88	0008C		BISB2	#128, AED_L_FLAGS	1741
							14	8A	00090		BICB2	#20, AED_L_FLAGS+1	1746
							C7	3C	00094		MOVZWL	SEGMENT_SIZE, R0	1748
							03	14	00099		BGTR	7\$	
							31	0009B	6\$:	BRW	13\$		
							D1	0009E	7\$:	CMP	BUFFER_INDEX, R0		1749
							18	000A1		BGEQ	6\$		
							A7	9F	000A3		PUSHAB	AED_Q_DEL_LINE+4	1753
							C3	000A6		SUBL3	BUFFER_INDEX, R0, 4(SP)		
							AE	9F	000AB		PUSHAB	4(SP)	
							02	FB	000AE		CALLS	#2, LIB\$GET_VM	
							50	D0	000B5		MOVL	R0, VM_STATUS	
							56	E9	000B8		BLBC	VM_STATUS, 8\$	
							C7	3C	000BB		MOVZWL	SEGMENT_SIZE, R0	
							69	C2	000C0		SUBL2	BUFFER_INDEX, R0	
							00	2C	000C3		MOVCS	#0, (SP), #0, R0, @AED_Q_DEL_LINE+4	
							B7	000C8					
							56	D0	000CA	8\$:	MOVL	VM_STATUS, AED_L_STATUS	
							C7	E8	000CF		BLBS	AED_L_STATUS, T2\$	1754
							03	E1	000D4		BBC	#3, AED_L_FLAGS, 9\$	1757
							01	DD	000D8		PUSHL	#1	
							15	DD	000DA		PUSHL	#21	
							02	FB	000DC		CALLS	#2, SCR\$ERASE_PAGE	
							01	DD	000DF		PUSHL	#1	
							15	DD	000E1		PUSHL	#21	
							02	FB	000E3		CALLS	#2, SCR\$SET_CURSOR	
							C7	DD	000E6	9\$:	PUSHL	AED_L_STATUS	
							01	FB	000EA		CALLS	#1, LIB\$SIGNAL	
							03	E1	000F1		BBC	#3, AED_L_FLAGS, 10\$	
							A7	9A	000F5		MOVZBL	AED_B_COLUMN, -(SP)	
							A7	9A	000F9		MOVZBL	AED_B_LINE, -(SP)	
							02	FB	000FD		CALLS	#2, SCR\$SET_CURSOR	
							C7	D0	00100	10\$:	MOVL	AED_L_STATUS, R0	
							50	93	00105		BITB	R0, -#7	
							11	13	00108		BEQL	11\$	
							00	EF	0010A		EXTZV	#0, #3, R0, R1	
							00	ED	0010F		CMPZV	#0, #3, AED_L_WORSTERR, R1	
							04	18	00115		BGEQ	11\$	

14	A7		50	D0	00117	MOVL	R0, AED_L_WORSTERR	:		
01	A7	2008	8F	AA	0011B	BICW2	#8200, AED_L_FLAGS+1	:	1759	
		28	A9	94	00121	CLRB	TERM_CHAR	:	1760	
			3F	11	00124	BRB	15\$	:	1761
			69	D0	00126	12\$:	MOVL	BUFFER_INDEX, R6	1763	
58	A7	00B8	56	A3	00129	SUBW3	R6, SEGMENT_SIZE, AED_Q_DEL_LINE	:		
5C	B7	00C4	C7	A7	28	00130	MOVC3	AED_Q_DEL_LINE, INPUT_BUFFER[R6], -	1765	
							AED_Q_DEL_LINE+4	:		
		00B8	C7	56	B0	00139	MOVW	R6, SEGMENT_SIZE	1766	
			7E	A7	9A	0013E	MOVZBL	AED_B_COLUMN, -(SP)	1767	
			7E	A7	9A	00142	MOVZBL	AED_B_LINE, -(SP)		
		00000000G	00	02	FB	00146	CALLS	#2, SCRSErase_LINE		
				09	11	0014D	BRB	14\$	1748	
				01	DD	0014F	13\$:	PUSHL	#1	1769
				59	DD	00151		PUSHL	R9	
		0000G	CF	02	FB	00153	CALLS	#2, AED_SEGCOMBINE		
		01	A7	8F	AA	00158	14\$:	BICW2	#8200, AED_L_FLAGS+1	1772
				A9	94	0015E	CLRB	TERM_CHAR	1773	
			50	01	D0	00161	MOVL	#1, R0	1774	
					04	00164	RET			
				50	D4	00165	15\$:	CLRL	R0	1776
					04	00167	RET			

; Routine Size: 360 bytes, Routine Base: \$CODE\$ + 0C00

ACT_DEL_ACE - delete current ACE

```
: 1334 1777 1 XSBTTL 'ACT_DEL_ACE - delete current ACE'
: 1335 1778 1 ROUTINE ACT_DEL_ACE =
: 1336 1779 1
: 1337 1780 1 ++
: 1338 1781 1
: 1339 1782 1 FUNCTIONAL DESCRIPTION:
: 1340 1783 1
: 1341 1784 1 This routine deletes the current ACE (bounded by the first and last
: 1342 1785 1 line segment pointers) and stores it for later retrieval. The ACE
: 1343 1786 1 is also deleted from the object's ACL is necessary.
: 1344 1787 1
: 1345 1788 1 CALLING SEQUENCE:
: 1346 1789 1 ACT_DEL_ACE ()
: 1347 1790 1
: 1348 1791 1 INPUT PARAMETERS:
: 1349 1792 1 none
: 1350 1793 1
: 1351 1794 1 IMPLICIT INPUTS:
: 1352 1795 1 OWN storage
: 1353 1796 1
: 1354 1797 1 OUTPUT PARAMETERS:
: 1355 1798 1 none
: 1356 1799 1
: 1357 1800 1 IMPLICIT OUTPUTS:
: 1358 1801 1 none
: 1359 1802 1
: 1360 1803 1 ROUTINE VALUE:
: 1361 1804 1 1 if successful
: 1362 1805 1 error status otherwise
: 1363 1806 1
: 1364 1807 1 SIDE EFFECTS:
: 1365 1808 1 The line segment table is updated as necessary, ACE line pointers
: 1366 1809 1 are updated, and the object's ACL is updated as necessary.
: 1367 1810 1
: 1368 1811 1 --
: 1369 1812 1
: 1370 1813 2 BEGIN
: 1371 1814 2
: 1372 1815 2 ! Check to see if the ACE is untouchable. If so, it cannot be deleted.
: 1373 1816 2
: 1374 1817 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
: 1375 1818 2 THEN
: 1376 1819 3 BEGIN
: 1377 1820 3 SIGNAL (AED$ NOMODIFY);
: 1378 1821 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1379 1822 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1380 1823 3 TERM CHAR = 0;
: 1381 1824 3 RETURN 1;
: 1382 1825 2 END;
: 1383 1826 2
: 1384 1827 2 ! Delete anything currently in the delete ACE buffer.
: 1385 1828 2
: 1386 1829 2 UNTIL REMQUE (.AED_Q_DEL_ACE[LINE_L_FLINK], REMOVED_LINE)
: 1387 1830 2 DO
: 1388 1831 3 BEGIN
: 1389 1832 3 REMOVED_ACE = .REMOVED_LINE[LINE_L_BINACE];
: 1390 1833 3 IF .REMOVED_LINE[LINE_V_BEGINACE]
```


ACT_DEL_ACE - delete current ACE

```
: 1391      1834      3      AND .REMOVED_ACE NEQ 0
: 1392      1835      3      THEN DEALLOCATE (.REMOVED_ACE[ACESB_SIZE], REMOVED_ACE);
: 1393      1836      3      DEALLOCATE (.REMOVED_LINE[LINE_W_SIZE] + $BYTEOFFSET (LINE_T_TEXT),
: 1394      1837      3      REMOVED_LINE);
: 1395      1838      3      END;
: 1396      1839      3      NEW_TEXT_LINE = AED_REPSEGMENT ();
: 1397      1840      3      AED_POSITION (.AED_L_FIRSTLINE);
: 1398      1841      3      AED_L_BEGINLINE = .AED_L_BEGINLINE[LINE_L_BLINK];
: 1399      1842      3      TEMP_LINE = .AED_B_LINE = 1;
: 1400      1843      3      NEW_TEXT_LINE = .AED_L_FIRSTLINE;
: 1401      1844      3      DO
: 1402      1845      3      BEGIN
: 1403      1846      3      AED_L_FIRSTLINE = .AED_L_FIRSTLINE[LINE_L_FLINK];
: 1404      1847      3      REMOVE (NEW_TEXT_LINE[LINE_L_FLINK], REMOVED_LINE);
: 1405      1848      3      IF NOT .REMOVED [LINE_V_DUMMY]
: 1406      1849      3      THEN INSQUE (REMOVED_LINE[LINE_L_FLINK],
: 1407      1850      3      .AED_Q_DEL_ACE[LINE_L_BLINK]);
: 1408      1851      3      TEMP_LINE = .TEMP_LINE + 1;
: 1409      1852      3      NEW_TEXT_LINE = .AED_L_FIRSTLINE;
: 1410      1853      3      END
: 1411      1854      3      UNTIL .REMOVED_LINE EQL .AED_L_LASTLINE;
: 1412      1855      3      AED_L_STATUS = .AED_UPDATEACL (0);
: 1413      1856      3      AED_L_FLAGS[AED_V_INSERT] = AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
: 1414      1857      3      AED_L_FLAGS[AED_V_MODIFIED] = 0;
: 1415      1858      3      IF NOT .AED_L_STATUS
: 1416      1859      3      THEN
: 1417      1860      3      BEGIN
: 1418      1861      3      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1419      1862      3      RETURN 0;
: 1420      1863      3      END;
: 1421      1864      3      IF .AED_L_FIRSTLINE EQLA AED_Q_LINETABLE[LINE_L_FLINK]
: 1422      1865      3      THEN
: 1423      1866      3      BEGIN
: 1424      1867      3      BUFFER_INDEX = 0;
: 1425      1868      3      AED_L_FLAGS[AED_V_ENDACL] = 1;
: 1426      1869      3      AED_L_FLAGS[AED_V_INSERTTEXT] = 1;
: 1427      1870      3      AED_W_TOTALSIZE = SEGMENT_SIZE = 0;
: 1428      1871      3      INSQUE (AED_T_CURLINE[LINE_L_FLINK],
: 1429      1872      3      .AED_Q_LINETABLE[LINE_L_BLINK]);
: 1430      1873      3      AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
: 1431      1874      3      AED_L_FIRSTLINE[LINE_W_FLAGS] = LINE_M_BEGINACE;
: 1432      1875      3      AED_L_CURACE = 0;
: 1433      1876      3      IF .AED_L_FLAGS[AED_V_PROMPT]
: 1434      1877      3      THEN
: 1435      1878      3      BEGIN
: 1436      1879      3      AED_B_ACETYPE = 0;
: 1437      1880      3      AED_L_FLAGS[AED_V_NOITEMSEL] = 0;
: 1438      1881      3      AED_SELECTFIELD (BUFFER_INDEX);
: 1439      1882      3      END;
: 1440      1883      3      END
: 1441      1884      3      ELSE
: 1442      1885      3      BEGIN
: 1443      1886      3      BUFFER_INDEX = 0;
: 1444      1887      3      AED_COPYSEGMENT (.AED_L_FIRSTLINE);
: 1445      1888      3      INSQUE (AED_T_CURLINE[LINE_L_FLINK],
: 1446      1889      3      .AED_L_FIRSTLINE[LINE_L_BLINK]);
: 1447      1890      3      AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
```


ACT_DEL_ACE - delete current ACE

```
: 1448 1891 3 AED_W_TOTALSIZE = .AED_L_FIRSTLINE[LINE_W_SIZE];
: 1449 1892 3 UNTIL .AED_L_LASTLINE[LINE_V_ENDACE]
: 1450 1893 3 DO
: 1451 1894 4 BEGIN
: 1452 1895 4 IF .AED_L_LASTLINE EQA AED_T_CURLINE
: 1453 1896 4 THEN AED_C_LASTLINE = .AED_C_LASTLINE[LINE_L_FLINK];
: 1454 1897 4 AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
: 1455 1898 4 AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_LASTLINE[LINE_W_SIZE];
: 1456 1899 3 END;
: 1457 1900 3 AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BINACE];
: 1458 1901 3 END;
: 1459 1902 2 AED_B_COLUMN = .BUFFER_INDEX + 1;
: 1460 1903 2 AED_L_BEGINLINE = .AED_L_BEGINLINE[LINE_L_FLINK];
: 1461 1904 2
: 1462 1905 2 ! Now repaint the display. This is done by either scrolling down and repainting
: 1463 1906 2 ! the first part of the display or repainting from the current position to the
: 1464 1907 2 ! end of the display (or the end of the ACL).
: 1465 1908 2
: 1466 1909 2 IF .AED_B_LINE LEQ 10
: 1467 1910 2 THEN
: 1468 1911 3 BEGIN
: 1469 1912 3 INCR J FROM 0 TO .TEMP_LINE - .AED_B_LINE
: 1470 1913 3 DO
: 1471 1914 4 BEGIN
: 1472 1915 4 IF .J EQ 0 THEN SCR$SET_CURSOR (20,1); ! **** TEMP ****
: 1473 1916 4 SCR$UP_SCROLL ();
: 1474 1917 3 END;
: 1475 1918 3 NEW TEXT LINE = .AED_L_BEGINLINE;
: 1476 1919 3 INCR J FROM 1 TO .AED_B_LINE
: 1477 1920 3 DO
: 1478 1921 4 BEGIN
: 1479 1922 4 ECHO_DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
: 1480 1923 4 ECHO_DESC[DSC$A_POINTER] = .NEW_TEXT_LINE[LINE_T_TEXT];
: 1481 1924 4 SCR$SET_CURSOR (.J, 1);
: 1482 1925 4 AED_PUTOUTPUT (ECHO_DESC);
: 1483 1926 4 SCR$ERASE_LINE (.J, .ECHO_DESC[DSC$W_LENGTH] + 1);
: 1484 1927 4 IF .NEW_TEXT_LINE[LINE_V_REPLACE] THEN NEW TEXT LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
: 1485 1928 4 NEW TEXT LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
: 1486 1929 3 END;
: 1487 1930 2 END
: 1488 1931 2 ELSE
: 1489 1932 3 BEGIN
: 1490 1933 3 IF .AED_L_FLAGS[AED_V_ENDACL]
: 1491 1934 3 THEN NEW TEXT LINE = AED_T_CURLINE
: 1492 1935 3 ELSE NEW TEXT LINE = .AED_T_CURLINE[LINE_L_FLINK];
: 1493 1936 3 INCR J FROM .AED_B_LINE TO 20
: 1494 1937 3 DO
: 1495 1938 4 BEGIN
: 1496 1939 4 IF .NEW_TEXT_LINE EQA AED_Q_LINETABLE[LINE_L_FLINK]
: 1497 1940 4 THEN
: 1498 1941 5 BEGIN
: 1499 1942 5 IF .J LSS 20 THEN SCR$ERASE_PAGE (.J, 1);
: 1500 1943 5 EXITLOOP;
: 1501 1944 4 END;
: 1502 1945 4 ECHO_DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
: 1503 1946 4 ECHO_DESC[DSC$A_POINTER] = .NEW_TEXT_LINE[LINE_T_TEXT];
: 1504 1947 4 SCR$SET_CURSOR (.J, 1);
```



```
! End of routine ACT_DEL_ACE
```

				OFFC	00000	ACT_DEL	ACE:			
			5B	00000000G	00	9E	00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	1778
			5A	00000000G	00	9E	00009	MOVAB	SCR\$ERASE LINE, R11	
			59	00000000G	8F	D0	00010	MOVAB	LIB\$FREE VM, R10	
			58	00000000G	00	9E	00017	MOVL	#AED\$ NOMODIFY, R9	
			57	00000000G	00	9E	0001E	MOVAB	SCR\$ERASE PAGE, R8	
			56	00000000G	00	9E	0001E	MOVAB	SCR\$SET CURSOR, R7	
			55	00000000G	CF	9E	00025	MOVAB	NEW TEXT LINE, R6	
			5E	00000000G	CF	9E	0002A	MOVAB	AED_L FIRSTLINE, R5	
			50	00000000G	04	C2	0002F	SUBL2	#4, -SP	1817
47	0A		A0	00000000G	65	D0	00032	MOVL	AED_L FIRSTLINE, R0	
0E	CO		A5	00000000G	04	E1	00035	BBC	#4, -10(R0), 4\$	1820
				00000000G	03	E1	0003A	BBC	#3, AED_L_FLAGS, 1\$	
				00000000G	01	DD	0003F	PUSHL	#1	
			68	00000000G	15	DD	00041	PUSHL	#21	
				00000000G	02	FB	00043	CALLS	#2, SCR\$ERASE_PAGE	
				00000000G	01	DD	00046	PUSHL	#1	
			67	00000000G	15	DD	00048	PUSHL	#21	
				00000000G	02	FB	0004A	CALLS	#2, SCR\$SET_CURSOR	
				00000000G	59	DD	0004D	PUSHL	R9	
	0B	00000000G	00	00000000G	01	FB	0004F	CALLS	#1, LIB\$SIGNAL	
		CO	A5	00000000G	03	E1	00056	BBC	#3, AED_L_FLAGS, 2\$	
			7E	00000000G	A5	9A	0005B	MOVZBL	AED_B_COLUMN, -(SP)	
			7E	00000000G	A5	9A	0005F	MOVZBL	AED_B_LINE, -(SP)	
			67	00000000G	02	FB	00063	CALLS	#2, SCR\$SET_CURSOR	
				000000000*	8F	D5	00066	TSTL	#<AED\$ NOMODIFY&7>	
				000000000*	10	13	0006C	BEQL	3\$	
00000000*	8F		03	000000000*	00	ED	0006E	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$ NOMODIFY&7>	
				000000000*	04	18	00078	BGEQ	3\$	
			D4	000000000*	59	D0	0007A	MOVL	R9, AED_L_WORSTERR	
				000000000*	021A	31	0007E	BRW	28\$	1821
			F8	000000000*	B5	0F	00081	REMQUE	@AED_Q_DEL_ACE, REMOVED_LINE	1829
				000000000*	35	1D	00086	BVS	6\$	
			50	000000000*	A6	D0	00088	MOVL	REMOVED_LINE, R0	1832
			FC	000000000*	0C	A0	0008C	MOVL	12(R0), REMOVED_ACE	
			10	000000000*	0A	A0	00091	BLBC	10(R0), 5\$	1833
				000000000*	0E	13	00095	BEQL	5\$	1834
				000000000*	FC	A6	00097	PUSHAB	REMOVED_ACE	1835
			04	000000000*	FC	B6	0009A	MOVZBL	@REMOVED_ACE, 4(SP)	

		04	AE	9F	0009F	PUSHAB	4(SP)		
	6A	02	FB	000A2	CALLS	#2, LIB\$FREE_VM			
		F8	A6	9F	000A5	5\$: PUSHAB	REMOVED_LINE		1837
	50	F8	A6	D0	000A8	MOVL	REMOVED_LINE, R0		
04	AE	08	A0	3C	000AC	MOVZWL	8(R0), 4(SP)		
04	AE		14	C0	000B1	ADDL2	#20, 4(SP)		
		04	AE	9F	000B5	PUSHAB	4(SP)		
	6A	02	FB	000B8	CALLS	#2, LIB\$FREE_VM			1829
		C4	11	000BB	BRB	4\$			1839
0000G	CF		00	FB	000BD	6\$: CALLS	#0, AED_REPSEGMENT		
	66		50	D0	000C2	MOVL	R0, NEW_TEXT_LINE		
			65	DD	000C5	PUSHL	AED_L_FIRSTLINE		1840
0000G	CF		01	FB	000C7	CALLS	#1, AED_POSITION		
	50	08	A5	D0	000CC	MOVL	AED_L_BEGINLINE, R0		1841
		04	A0	D0	000D0	MOVL	4(R0), AED_L_BEGINLINE		
F4	A6	E4	A5	9A	000D5	MOVZBL	AED_B_LINE, TEMP_LINE		1842
		F4	A6	D7	000DA	DECL	TEMP_LINE		
	66		65	D0	000DD	MOVL	AED_C_FIRSTLINE, NEW_TEXT_LINE		1843
	51		65	D0	000E0	MOVL	AED_L_FIRSTLINE, R1		1846
	65		61	D0	000E3	7\$: MOVL	(R1), AED_L_FIRSTLINE		
F8	A6	00	B6	0F	000E6	REMQUE	@NEW_TEXT_LINE, REMOVED_LINE		1847
	50	F8	A6	D0	000EB	MOVL	REMOVED_LINE, R0		1848
04	0A		02	E0	000EF	BBS	#2, 10(R0), 8\$		
	14		60	0E	000F4	INSQUE	(R0), @AED_Q_DEL_ACE+4		1850
		F4	A6	D6	000F8	8\$: INCL	TEMP_LINE		1851
	51		65	D0	000FB	MOVL	AED_C_FIRSTLINE, R1		1852
	66		51	D0	000FE	MOVL	R1, NEW_TEXT_LINE		
04	A5	F8	A6	D1	00101	CMPL	REMOVED_LINE, AED_L_LASTLINE		1854
			DB	12	00106	BNEQ	7\$		
			7E	D4	00108	CLRL	-(SP)		1855
0000G	CF		01	FB	0010A	CALLS	#1, AED_UPDATEACL		
4C	A5		50	D0	0010F	MOVL	R0, AED_L_STATUS		
C0	A5	6080	8F	AA	00113	BICW2	#24704, AED_L_FLAGS		1856
	07	4C	A5	E8	00119	BLBS	AED_L_STATUS, 9\$		1858
C1	A5		08	8A	0011D	BICB2	#8, AED_L_FLAGS+1		1861
		0184	31	00121	BRW	29\$			1862
		E8	A6	D4	00124	9\$: CLRL	BUFFER_INDEX		1867
	50	F0	A5	9E	00127	MOVAB	AED_Q_LINETABLE, R0		1864
	50		65	D1	0012B	CMPL	AED_L_FIRSTLINE, R0		
			3A	12	0012E	BNEQ	10\$		
C0	A5	4020	8F	A8	00130	BISW2	#16416, AED_L_FLAGS		1869
		78	A5	B4	00136	CLRW	SEGMENT_SIZE		1870
		0284	C5	B4	00139	CLRW	AED_W_TOTALSIZE		
F4	B5	70	A5	0E	0013D	INSQUE	AED_T_CURLINE, @AED_Q_LINETABLE+4		1872
	50	70	A5	9E	00142	MOVAB	AED_T_CURLINE, R0		1873
04	A5		50	D0	00146	MOVL	R0, AED_L_LASTLINE		
	65		50	D0	0014A	MOVL	R0, AED_L_FIRSTLINE		
0A	A0		01	B0	0014D	MOVW	#1, 10(R0)		1874
		FC	A5	D4	00151	CLRL	AED_L_CURACE		1875
		C1	A5	95	00154	TSTB	AED_L_FLAGS+1		1876
			60	18	00157	BGEQ	14\$		
		68	A5	94	00159	CLRB	AED_B_ACETYPE		1879
C2	A5		08	8A	0015C	BICB2	#8, AED_L_FLAGS+2		1880
		E8	A6	9F	00160	PUSHAB	BUFFER_INDEX		1881
0000G	CF		01	FB	00163	CALLS	#1, AED_SELECTFIELD		
			4F	11	00168	BRB	14\$		1864
			65	DD	0016A	10\$: PUSHL	AED_L_FIRSTLINE		1887

		0000G	CF		01	FB	0016C	CALLS	#1, AED COPSEGMENT		
			50		65	D0	00171	MOVL	AED_L_FIRSTLINE, R0		1889
		04	B0	70	A5	0E	00174	INSQUE	AED_T_CURLINE, @4(R0)		
			50	70	A5	9E	00179	MOVAB	AED_T_CURLINE, R0		1890
		04	A5		50	D0	0017D	MOVL	R0, AED_L_LASTLINE		
			65		50	D0	00181	MOVL	R0, AED_L_FIRSTLINE		
			51		65	D0	00184	MOVL	AED_L_FIRSTLINE, R1		1891
		0284	C5	08	A1	B0	00187	MOVW	8(RT), AED_W_TOTALSIZE		
			50	04	A5	D0	0018D	MOVL	AED_L_LASTLINE, R0		1892
1E		0A	A0		01	E0	00191	11\$:	BBS	#1, -10(R0), 13\$	
			52	70	A5	9E	00196	MOVAB	AED_T_CURLINE, R2		1895
			52		50	D1	0019A	CMP	R0, R2		
					04	12	0019D	BNEQ	12\$		
		04	A5		60	D0	0019F	MOVL	(R0), AED_L_LASTLINE		1896
		04	A5	04	B5	D0	001A3	12\$:	MOVL	@AED_L_LASTLINE, AED_L_LASTLINE	1897
			50	04	A5	D0	001A8	MOVL	AED_L_LASTLINE, R0		1898
		0284	C5	08	A0	A0	001AC	ADDW2	8(R0), AED_W_TOTALSIZE		
					DD	11	001B2	BRB	11\$		1892
		FC	A5	0C	A1	D0	001B4	13\$:	MOVL	12(R1), AED_L_CURACE	1900
EO	A5	E8	A6		01	81	001B9	14\$:	ADDB3	#1, BUFFER INDEX, AED_B_COLUMN	1902
		08	A5	08	B5	D0	001BF	MOVL	@AED_L_BEGINLINE, AED_L_BEGINLINE		1903
			52	E4	A5	9A	001C4	MOVZBL	AED_B_LINE, R2		1909
			0A		52	91	001C8	CMPB	R2, #10		
					65	1A	001CB	BGTRU	21\$		
		54	F4		52	C3	001CD	SUBL3	R2, TEMP_LINE, R4		1912
			53		01	CE	001D2	MNEGL	#1, J		
					10	11	001D5	BRB	17\$		
					07	12	001D7	15\$:	BNEQ	16\$	1915
					01	DD	001D9	PUSHL	#1		
					14	DD	001DB	PUSHL	#20		
			67		02	FB	001DD	CALLS	#2, SCR\$SET_CURSOR		
		00000000G	00		00	FB	001E0	16\$:	CALLS	#0, SCR\$UP_SCROLL	1916
EC			53		54	F3	001E7	17\$:	AOBLEQ	R4, J, 15\$	1912
			66	08	A5	D0	001EB	MOVL	AED_L_BEGINLINE, NEW_TEXT_LINE		1918
			53	E4	A5	9A	001EF	MOVZBL	AED_B_LINE, R3		1919
					52	D4	001F3	CLRL	J		
					35	11	001F5	BRB	20\$		
			50		66	D0	001F7	18\$:	MOVL	NEW TEXT LINE, R0	1922
		EC	A6	08	A0	B0	001FA	MOVW	8(R0), ECHO_DESC		
		FO	A6	14	A0	9E	001FF	MOVAB	20(R0), ECHO_DESC+4		1923
					01	DD	00204	PUSHL	#1		1924
					52	DD	00206	PUSHL	J		
			67		02	FB	00208	CALLS	#2, SCR\$SET_CURSOR		
		0000G	CF	EC	A6	9F	0020B	PUSHAB	ECHO_DESC		1925
			7E	EC	01	FB	0020E	CALLS	#1, AED PUTOUTPUT		
					A6	3C	00213	MOVZWL	ECHO_DESC, -(SP)		1926
					6E	D6	00217	INCL	(SP)		
					52	DD	00219	PUSHL	J		
			6B		02	FB	0021B	CALLS	#2, SCR\$ERASE_LINE		
			50		66	D0	0021E	MOVL	NEW TEXT LINE, R0		1927
03		0A	A0		03	E1	00221	BBC	#3, -10(R0), 19\$		
			66		60	D0	00226	MOVL	(R0), NEW TEXT LINE		
			76		96	D0	00229	19\$:	MOVL	@NEW TEXT LINE, NEW TEXT LINE	1928
C7			52		53	F3	0022C	20\$:	AOBLEQ	R3, J, 18\$	1919
					58	11	00230	BRB	27\$		1909
06		C0	A5		05	E1	00232	21\$:	BBC	#5, AED L FLAGS, 22\$	1933
			66	70	A5	9E	00237	MOVAB	AED_T_CURLINE, NEW_TEXT_LINE		1934

			04	11	0023B	BRB	23\$		
	66	70	A5	D0	0023D	22\$: MOVL	AED_T_CURLINE, NEW_TEXT_LINE		1935
			52	D7	00241	23\$: DECL	J		1936
			41	11	00243	BRB	26\$		
	50	FO	A5	9E	00245	24\$: MOVAB	AED_Q LINETABLE, R0		1939
	50		66	D1	00249	CMPL	NEW_TEXT_LINE, R0		
			0E	12	0024C	BNEQ	25\$		
	14		52	D1	0024E	CMPL	J, #20		1942
			37	18	00251	BGEQ	27\$		
			01	DD	00253	PUSHL	#1		
			52	DD	00255	PUSHL	J		
	68		02	FB	00257	CALLS	#2, SCR\$ERASE_PAGE		
			2E	11	0025A	BRB	27\$		1941
	50		66	D0	0025C	25\$: MOVL	NEW TEXT LINE, R0		1945
EC	A6	08	A0	B0	0025F	MOVW	8(R0), ECHO_DESC		
FO	A6	14	A0	9E	00264	MOVAB	20(R0), ECHO_DESC+4		1946
			01	DD	00269	PUSHL	#1		1947
			52	DD	0026B	PUSHL	J		
	67		02	FB	0026D	CALLS	#2, SCR\$SET_CURSOR		
		EC	A6	9F	00270	PUSHAB	ECHO_DESC		1948
0000G	CF		01	FB	00273	CALLS	#1, AED_PUTOUTPUT		
	7E	EC	A6	3C	00278	MOVZWL	ECHO_DESC, -(SP)		1949
			6E	D6	0027C	INCL	(SP)		
			52	DD	0027E	PUSHL	J		
	6B		02	FB	00280	CALLS	#2, SCR\$ERASE_LINE		
BB	76		96	D0	00283	MOVL	@NEW_TEXT_LINE, NEW_TEXT_LINE		1950
	52		14	F3	00286	26\$: AOBLEQ	#20, J, 24\$		1936
	A5		10	88	0028A	27\$: BISB2	#16, AED_L_FLAGS+1		1953
C1	7E	E0	A5	9A	0028E	MOVZBL	AED_B_COLUMN, -(SP)		1954
	7E	E4	A5	9A	00292	MOVZBL	AED_B_LINE, -(SP)		
0000G	CF		02	FB	00296	CALLS	#2, AED_SET_CURSOR		
C1	A5	2008	8F	AA	0029B	28\$: BICW2	#8200, AED_C_FLAGS+1		1956
		10	A6	94	002A1	CLRB	TERM_CHAR		1957
	50		01	D0	002A4	MOVL	#1, R0		1958
				04	002A7	RET			
			50	D4	002A8	29\$: CLRL	R0		1960
			04	002AA	RET				

; Routine Size: 683 bytes, Routine Base: \$CODE\$ + 0E38

ACT_UNDEL_CHR - insert deleted character

```
1519 1961 1 %SBTTL 'ACT_UNDEL_CHR - insert deleted character'
1520 1962 1 ROUTINE ACT_UNDEL_CHR =
1521 1963 1
1522 1964 1 !++
1523 1965 1
1524 1966 1 FUNCTIONAL DESCRIPTION:
1525 1967 1
1526 1968 1 This routine retrieves the previously deleted character and inserts
1527 1969 1 it into the line segment at the current cursor position. The
1528 1970 1 cursor position is unchanged.
1529 1971 1
1530 1972 1 CALLING SEQUENCE:
1531 1973 1 ACT_UNDEL_CHR ()
1532 1974 1
1533 1975 1 INPUT PARAMETERS:
1534 1976 1 none
1535 1977 1
1536 1978 1 IMPLICIT INPUTS:
1537 1979 1 OWN storage
1538 1980 1
1539 1981 1 OUTPUT PARAMETERS:
1540 1982 1 none
1541 1983 1
1542 1984 1 IMPLICIT OUTPUTS:
1543 1985 1 none
1544 1986 1
1545 1987 1 ROUTINE VALUE:
1546 1988 1 1 if successful
1547 1989 1 error status otherwise
1548 1990 1
1549 1991 1 SIDE EFFECTS:
1550 1992 1 The line segment table is updated as necessary, ACE line pointers
1551 1993 1 are updated, and the object's ACL is updated as necessary.
1552 1994 1
1553 1995 1 !--
1554 1996 1
1555 1997 2 BEGIN
1556 1998 2
1557 1999 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1558 2000 2 IF .AED_B_DEL_CHAR EQL 0
1559 2001 2 THEN
1560 2002 3 BEGIN
1561 2003 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
1562 2004 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1563 2005 3 TERM_CHAR = 0;
1564 2006 3 RETURN 1;
1565 2007 2 END;
1566 2008 2
1567 2009 2 ! If the current ACE is marked as untouchable, no modifications are allowed.
1568 2010 2
1569 2011 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
1570 2012 2 THEN
1571 2013 3 BEGIN
1572 2014 3 SIGNAL (AED$ NOMODIFY);
1573 2015 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
1574 2016 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
1575 2017 3 TERM_CHAR = 0;
```



```
: 1576      2018 3      RETURN 1;  
: 1577      2019 2      END;  
: 1578      2020 2  
: 1579      2021 2 ! Retrieve the deleted character.  
: 1580      2022 2  
: 1581      2023 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;  
: 1582      2024 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;  
: 1583      2025 2 TERM_CHAR = .AED_B_DEL_CHAR;  
: 1584      2026 2 RETURN 1;  
: 1585      2027 2  
: 1586      2028 1 END;
```

! End of routine ACT_UNDEL_CHR

				001C 00000 ACT_UNDEL_CHR:				
			54 00000000G	8F D0 00002	WORD	Save R2,R3,R4	: 1962	
			53 00000000G	00 9E 00009	MOVL	#AED\$_NOMODIFY, R4		
			52 0000'	CF 9E 00010	MOVAB	SCR\$SET_CURSOR, R3		
	02	A2		20 8A 00015	MOVAB	AED_L_FLAGS, R2		
			68	A2 95 00019	BICB2	#32, AED_L_FLAGS+2	: 1999	
				4F 13 0001C	TSTB	AED_B_DEL_CHAR	: 2000	
				A2 D0 0001E	BEQL	3\$		
		50	40	A2 D0 0001E	MOVL	AED_L_FIRSTLINE, R0	: 2011	
52	0A	A0		04 E1 00022	BBC	#4, 10(R0), 4\$		
12		62		03 E1 00027	BBC	#3, AED_L_FLAGS, 1\$	: 2014
				01 DD 0002B	PUSHL	#1		
				15 DD 0002D	PUSHL	#21		
		00000000G	00	02 FB 0002F	PUSHL	#2, SCR\$ERASE_PAGE		
				01 DD 00036	PUSHL	#1		
				15 DD 00038	PUSHL	#21		
		63		02 FB 0003A	CALLS	#2, SCR\$SET_CURSOR		
				54 DD 0003D	PUSHL	R4		
		00000000G	00	01 FB 0003F	CALLS	#1, LIB\$SIGNAL		
0B				03 E1 00046	BBC	#3, AED_L_FLAGS, 2\$		
			20	A2 9A 0004A	MOVZBL	AED_B_COLUMN, -(SP)		
			24	A2 9A 0004E	MOVZBL	AED_B_LINE, -(SP)		
			63	02 FB 00052	CALLS	#2, SCR\$SET_CURSOR		
			00000000*	8F D5 00055	TSTL	#<AED\$_NOMODIFY&7>		
				10 13 00058	BEQL	3\$		
00000000*	8F	14	A2	03	00 ED 0005D	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_NOMODIFY&7>	
				04 18 00067	BGEQ	3\$		
		14	A2	54 D0 00069	MOVL	R4, AED_L_WORSTERR		
		01	A2	8F AA 0006D	BICW2	#8200, AED_L_FLAGS+1	: 2016	
			2008	CF 94 00073	CLRB	TERM_CHAR	: 2017	
			0000'	0C 11 00077	BRB	5\$	: 2018
		01	A2	8F AA 00079	BICW2	#8200, AED_L_FLAGS+1	: 2024	
		0000'	CF	A2 90 0007F	MOVB	AED_B_DEL_CHAR, TERM_CHAR	: 2025	
			68	A2 90 0007F	MOVB	AED_B_DEL_CHAR, TERM_CHAR	: 2026	
			50	01 D0 00085	MOVL	#1, R0	: 2028	
				04 00088	RET			

; Routine Size: 137 bytes, Routine Base: \$CODE\$ + 10E3

ACT_UNDEL_WRD - insert deleted word

```
: 1588 2029 1 %SBTTL 'ACT UNDEL WRD - insert deleted word'
: 1589 2030 1 ROUTINE ACT_UNDEL_WRD =
: 1590 2031 1
: 1591 2032 1 !++
: 1592 2033 1
: 1593 2034 1 FUNCTIONAL DESCRIPTION:
: 1594 2035 1
: 1595 2036 1 This routine retrieves the previously deleted word and inserts it
: 1596 2037 1 into the current line segment starting at the current cursor position.
: 1597 2038 1 If a delete word was used previously, the cursor position is not
: 1598 2039 1 changed. If a rubout word was used, the cursor is moved to the end
: 1599 2040 1 in the retrieved word.
: 1600 2041 1
: 1601 2042 1 CALLING SEQUENCE:
: 1602 2043 1 ACT_UNDEL_WRD ( )
: 1603 2044 1
: 1604 2045 1 INPUT PARAMETERS:
: 1605 2046 1 none
: 1606 2047 1
: 1607 2048 1 IMPLICIT INPUTS:
: 1608 2049 1 OWN storage
: 1609 2050 1
: 1610 2051 1 OUTPUT PARAMETERS:
: 1611 2052 1 none
: 1612 2053 1
: 1613 2054 1 IMPLICIT OUTPUTS:
: 1614 2055 1 none
: 1615 2056 1
: 1616 2057 1 ROUTINE VALUE:
: 1617 2058 1 1 if successful
: 1618 2059 1 error status otherwise
: 1619 2060 1
: 1620 2061 1 SIDE EFFECTS:
: 1621 2062 1 The line segment table is updated as necessary, ACE line pointers
: 1622 2063 1 are updated, and the object's ACL is updated as necessary.
: 1623 2064 1
: 1624 2065 1 !--
: 1625 2066 1
: 1626 2067 2 BEGIN
: 1627 2068 2
: 1628 2069 2 ! If the current ACE is marked as untouchable, no modifications are allowed.
: 1629 2070 2
: 1630 2071 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
: 1631 2072 2 THEN
: 1632 2073 2 BEGIN
: 1633 2074 2 SIGNAL (AED$ NOMODIFY);
: 1634 2075 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1635 2076 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1636 2077 2 TERM CHAR = 0;
: 1637 2078 2 RETURN 1;
: 1638 2079 2 END;
: 1639 2080 2
: 1640 2081 2 ! Retrieve the deleted word.
: 1641 2082 2
: 1642 2083 2 CH$COPY (.SEGMENT SIZE - .BUFFER INDEX,
: 1643 2084 2 INPUT_BUFFER[.BUFFER_INDEX],
: 1644 2085 2 0,
```


ACT_UNDEL_WRD - insert deleted word

```
: 1645      2086      2      512 = .BUFFER_INDEX - .AED_Q_DEL_WORD[DSCSW_LENGTH],
: 1646      2087      2      INPUT_BUFFER[.BUFFER_INDEX +
: 1647      2088      2      .AED_Q_DEL_WORD[DSCSW_LENGTH]];
: 1648      2089      2      CHSMOVE (.AED_Q_DEL_WORD[DSCSW_LENGTH],
: 1649      2090      2      .AED_Q_DEL_WORD[DSCSA_POINTER],
: 1650      2091      2      INPUT_BUFFER[.BUFFER_INDEX]);
: 1651      2092      2      SEGMENT_SIZE = .SEGMENT_SIZE + .AED_Q_DEL_WORD[DSCSW_LENGTH];
: 1652      2093      2      ECHO_DESC[DSCSW_LENGTH] = .SEGMENT_SIZE - .BUFFER_INDEX;
: 1653      2094      2      ECHO_DESC[DSCSA_POINTER] = INPUT_BUFFER[.BUFFER_INDEX];
: 1654      2095      2      IF .AED_L_FLAGS[AED_V RUBWORD]
: 1655      2096      2      THEN BUFFER_INDEX = .BUFFER_INDEX + .AED_Q_DEL_WORD[DSCSW_LENGTH];
: 1656      2097      2      IF .SEGMENT_SIZE GEQ .AED_L_PAGEWIDTH
: 1657      2098      2      THEN AED_SEGSPLIT (BUFFER_INDEX, 0, 1, 0)
: 1658      2099      2      ELSE AED_PUTOUTPUT (ECHO_DESC);
: 1659      2100      2      AED_B_COLUMN = .BUFFER_INDEX + 1;
: 1660      2101      2      AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 1661      2102      2      IF .AED_Q_DEL_WORD[DSCSW_LENGTH] NEQ 0
: 1662      2103      2      THEN
: 1663      2104      2      BEGIN
: 1664      2105      2      AED_L_FLAGS[AED_V_MODIFIED] = 1;
: 1665      2106      2      AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
: 1666      2107      2      END;
: 1667      2108      2      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1668      2109      2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1669      2110      2      TERM_CHAR = 0;
: 1670      2111      2      RETURN 1;
: 1671      2112      2
: 1672      2113      1 END;
```

! End of routine ACT_UNDEL_WRD

				OFFC 00000 ACT_UNDEL_WRD:							
				5B	00000000G	00	9E	00002	WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	2030
				5A	0000'	CF	9E	00009	MOVAB	SCR\$SET_CURSOR, R11	
				59	0000'	CF	9E	0000E	MOVAB	BUFFER_INDEX, R10	
				50	40	A9	D0	00013	MOVL	AED_L_FIRSTLINE, R0	2071
51	0A			A0		04	E1	00017	BBC	#4, -10(R0), 4\$	
12				69		03	E1	0001C	BBC	#3, AED_L_FLAGS, 1\$	2074
						01	DD	00020	PUSHL	#1	
						15	DD	00022	PUSHL	#21	
		00000000G	00			02	FB	00024	CALLS	#2, SCR\$ERASE_PAGE	
						01	DD	0002B	PUSHL	#1	
						15	DD	0002D	PUSHL	#21	
				6B		02	FB	0002F	CALLS	#2, SCR\$SET_CURSOR	
		00000000G	00		00000000G	8F	DD	00032	1\$: PUSHL	#AED\$_NOMODIFY	
						01	FB	00038	CALLS	#1, LIB\$SIGNAL	
0B				69		03	E1	0003F	BBC	#3, AED_L_FLAGS, 2\$	
				7E	20	A9	9A	00043	MOVZBL	AED_B_COLUMN, -(SP)	
				7E	24	A9	9A	00047	MOVZBL	AED_B_LINE, -(SP)	
				6B		02	FB	0004B	CALLS	#2, SCR\$SET_CURSOR	
					00000000*	8F	D5	0004E	2\$: TSTL	#<AED\$_NOMODIFY&7>	
						14	13	00054	BEQL	3\$	
00000000*	8F	14	A9			00	ED	00056	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_NOMODIFY&7>	
						08	18	00060	BGEQ	3\$	

14	A9	00000000G	8F	D0	00062	MOVL	#AED\$_NOMODIFY, AED_L_WORSTERR	
			0087	31	0006A	BRW	8\$	2075
			56	6A	D0	0006D		2083
		00B8	C9	3C	00070	MOVL	BUFFER_INDEX, R6	
			52	56	C2	MOVZWL	SEGMENT_SIZE, R2	
			52	9E	00075	SUBL2	R6, R2	
		00C4	C946	9E	00078	MOVAB	INPUT_BUFFER[R6], R8	2084
			60	A9	3C	MOVZWL	AED_Q_DEL_WORD, R7	2086
		FE00	C746	9E	00082	MOVAB	-512(R7)[R6], R1	
			51	CE	00088	MNEGL	R1, R1	
			51	C1	0008B	ADDL3	R7, R6, R0	2088
			56	52	2C	MOVCS	R2, (R8), #0, R1, INPUT_BUFFER[R0]	
51		50	68	00C4	C940			
		00						
		68	64	B9	57	28	00098	2091
			00B8	C9	57	A0	0009D	2092
	04	AA	00B8	C9	56	A3	000A2	2093
			08	AA	58	D0	000A9	2094
		03	01	A9	01	E1	000AD	2095
				6A	57	C0	000B2	2096
18	A9	00B8	C9	10	00	ED	000B5	2097
					0E	19	000BD	
			7E		01	7D	000BF	2098
					7E	D4	000C2	
					5A	DD	000C4	
		0000G	CF		04	FB	000C6	
					08	11	000CB	
				04	AA	9F	000CD	2099
					01	FB	000D0	
		0000G	CF		01	81	000D5	2100
	20	A9	6A		01	9A	000DA	2101
			7E	20	A9	9A	000DE	
			7E	24	A9	9A	000DE	
		0000G	CF		02	FB	000E2	
				60	A9	B5	000E7	2102
					08	13	000EA	
			69	80	8F	88	000EC	2105
		01	A9		10	8A	000F0	2106
		01	A9	2008	8F	AA	000F4	2109
				28	AA	94	000FA	2110
			50		01	D0	000FD	2111
					04	00100		2113
						RET		

; Routine Size: 257 bytes, Routine Base: \$CODE\$ + 116C

ACT_UNDEL_LIN - insert deleted line

```
: 1674 2114 1 %SBTTL 'ACT_UNDEL_LIN - insert deleted line'
: 1675 2115 1 ROUTINE ACT_UNDEL_LIN =
: 1676 2116 1
: 1677 2117 1 ++
: 1678 2118 1
: 1679 2119 1 FUNCTIONAL DESCRIPTION:
: 1680 2120 1
: 1681 2121 1 This routine retrieves the previously deleted line and inserts it
: 1682 2122 1 into the current line segment starting at the current cursor position.
: 1683 2123 1 If a delete line was used previously, the cursor position is not
: 1684 2124 1 changed. If a rubout line was used, the cursor is moved to the end
: 1685 2125 1 in the retrieved line.
: 1686 2126 1
: 1687 2127 1 CALLING SEQUENCE:
: 1688 2128 1 ACT_UNDEL_LIN ( )
: 1689 2129 1
: 1690 2130 1 INPUT PARAMETERS:
: 1691 2131 1 none
: 1692 2132 1
: 1693 2133 1 IMPLICIT INPUTS:
: 1694 2134 1 OWN storage
: 1695 2135 1
: 1696 2136 1 OUTPUT PARAMETERS:
: 1697 2137 1 none
: 1698 2138 1
: 1699 2139 1 IMPLICIT OUTPUTS:
: 1700 2140 1 none
: 1701 2141 1
: 1702 2142 1 ROUTINE VALUE:
: 1703 2143 1 1 if successful
: 1704 2144 1 error status otherwise
: 1705 2145 1
: 1706 2146 1 SIDE EFFECTS:
: 1707 2147 1 The line segment table is updated as necessary, ACE line pointers
: 1708 2148 1 are updated, and the object's ACL is updated as necessary.
: 1709 2149 1
: 1710 2150 1 --
: 1711 2151 1
: 1712 2152 2 BEGIN
: 1713 2153 2
: 1714 2154 2 ! If the current ACE is marked as untouchable, no modifications are allowed.
: 1715 2155 2
: 1716 2156 2 IF .AED_L_FIRSTLINE[LINE_V_NOTOUCH]
: 1717 2157 2 THEN
: 1718 2158 2 BEGIN
: 1719 2159 2 SIGNAL (AED$ NOMODIFY);
: 1720 2160 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1721 2161 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1722 2162 2 TERM CHAR = 0;
: 1723 2163 2 RETURN 1;
: 1724 2164 2 END;
: 1725 2165 2
: 1726 2166 2 ! Retrieve the deleted line.
: 1727 2167 2
: 1728 2168 2 CH$COPY (.SEGMENT SIZE - .BUFFER INDEX,
: 1729 2169 2 INPUT_BUFFER[.BUFFER_INDEX],
: 1730 2170 2 0,
```



```
: 1731      2171      2      512 = .BUFFER_INDEX - .AED_Q_DEL_LINE[DSCSW_LENGTH],
: 1732      2172      2      INPUT_BUFFER[.BUFFER_INDEX + .AED_Q_DEL_LINE[DSCSW_LENGTH]];
: 1733      2173      2      CHSMOVE (.AED_Q_DEL_LINE[DSCSW_LENGTH],
: 1734      2174      2      .AED_Q_DEL_LINE[DSCSA_POINTER],
: 1735      2175      2      INPUT_BUFFER[.BUFFER_INDEX]);
: 1736      2176      2      SEGMENT_SIZE = .SEGMENT_SIZE + .AED_Q_DEL_LINE[DSCSW_LENGTH];
: 1737      2177      2      ECHO_DESC[DSCSW_LENGTH] = .SEGMENT_SIZE - .BUFFER_INDEX;
: 1738      2178      2      ECHO_DESC[DSCSA_POINTER] = INPUT_BUFFER[.BUFFER_INDEX];
: 1739      2179      2      IF .AED_L_FLAGS[AED_V_DELBOL]
: 1740      2180      2      THEN BUFFER_INDEX = .BUFFER_INDEX + .AED_Q_DEL_LINE[DSCSW_LENGTH];
: 1741      2181      2      IF .SEGMENT_SIZE GEQ .AED_L_PAGEWIDTH
: 1742      2182      2      THEN AED_SEGSPLIT (BUFFER_INDEX, 0, 1, 0)
: 1743      2183      2      ELSE AED_PUTOUTPUT (ECHO_DESC);
: 1744      2184      2      AED_B_COLUMN = .BUFFER_INDEX + 1;
: 1745      2185      2      AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 1746      2186      2      IF .AED_Q_DEL_LINE[DSCSW_LENGTH] NEQ 0
: 1747      2187      2      THEN
: 1748      2188      3      BEGIN
: 1749      2189      3      AED_L_FLAGS[AED_V_MODIFIED] = 1;
: 1750      2190      3      AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
: 1751      2191      2      END;
: 1752      2192      2      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1753      2193      2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1754      2194      2      TERM_CHAR = 0;
: 1755      2195      2      RETURN 1;
: 1756      2196      2
: 1757      2197      1      END;
```

! End of routine ACT_UNDEL_LIN

				OFFC 00000 ACT_UNDEL_LIN:				
				5B 00000000G	00 9E 00002	WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	2115
				5A 00000	CF 9E 00009	MOVAB	SCR\$SET_CURSOR, R11	
				59 00000	CF 9E 0000E	MOVAB	BUFFER_INDEX, R10	
				50 40	A9 D0 00013	MOVL	AED_L_FLAGS, R9	
51	0A			A0	04 E1 00017	BBC	AED_L_FIRSTLINE, R0	2156
12				69	03 E1 0001C	BBC	#4, -10(R0), 4\$	
					01 DD 00020	PUSHL	#3, AED_L_FLAGS, 1\$	2159
					15 DD 00022	PUSHL	#1	
		00000000G	00		02 FB 00024	CALLS	#2, SCR\$ERASE_PAGE	
					01 DD 0002B	PUSHL	#1	
					15 DD 0002D	PUSHL	#21	
				6B	02 FB 0002F	CALLS	#2, SCR\$SET_CURSOR	
		00000000G	00		8F DD 00032	PUSHL	#AED\$_NOMODIFY	
0B				69	01 FB 00038	CALLS	#1, LIB\$SIGNAL	
				7E 20	03 E1 0003F	BBC	#3, AED_L_FLAGS, 2\$	
				7E 24	A9 9A 00043	MOVZBL	AED_B_COLUMN, -(SP)	
				6B	A9 9A 00047	MOVZBL	AED_B_LINE, -(SP)	
					02 FB 0004B	CALLS	#2, SCR\$SET_CURSOR	
		00000000*			8F D5 0004E	TSTL	#<AED\$_NOMODIFY&7>	
					14 13 00054	BEQL	3\$	
00000000*	8F	14	A9	03	00 ED 00056	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_NOMODIFY&7>	
					08 18 00060	BGEQ	3\$	
		14	A9	00000000G	8F D0 00062	MOVL	#AED\$_NOMODIFY, AED_L_WORSTERR	

51	50	56	0087	31	0006A	3\$:	BRW	8\$	2160		
	00	52	6A	D0	0006D	4\$:	MOVL	BUFFER_INDEX, R6	2168		
		52	00B8	C9	3C	00070	MOVZWL	SEGMENT_SIZE, R2			
		52	56	C2	00075		SUBL2	R6, R2			
		58	00C4	C946	9E	00078	MOVAB	INPUT_BUFFER[R6], R8	2169		
		57	58	A9	3C	0007E	MOVZWL	AED_Q_DEL_LINE, R7	2171		
		51	FE00	C746	9E	00082	MOVAB	-512(R7)[R6], R1			
		51		51	CE	00088	MNEGL	R1, R1			
		56		57	C1	0008B	ADDL3	R7, R6, R0	2172		
		68		52	2C	0008F	MOVCS	R2, (R8), #0, R1, INPUT_BUFFER[R0]			
			00C4	C940		00094					
	68	5C	B9	57	28	00098	MOVCS	R7, @AED_Q_DEL_LINE+4, (R8)	2175		
		00B8	C9	57	A0	0009D	ADDW2	R7, SEGMENT_SIZE	2176		
04	AA	00B8	C9	56	A3	000A2	SUBW3	R6, SEGMENT_SIZE, ECHO_DESC	2177		
		08	AA	58	D0	000A9	MOVL	R8, ECHO_DESC+4	2178		
	03	01	A9	02	E1	000AD	BBC	#2, AED [FLAGS+1, 5\$	2179		
18	A9	00B8	C9	57	C0	000B2	ADDL2	R7, BUFFER_INDEX	2180		
				00	ED	000B5	5\$:	CMPZV	#0, #16, SEGMENT_SIZE, AED_L_PAGEWIDTH	2181	
				0E	19	000BD	BLSS	6\$			
				7E	01	7D	000BF	MOVQ	#1, -(SP)	2182	
				7E	D4	000C2	CLRL	-(SP)			
				5A	DD	000C4	PUSHL	R10			
		0000G	CF	04	FB	000C6	CALLS	#4, AED_SEGSPLIT			
				08	11	000CB	BRB	7\$			
				04	AA	9F	000CD	6\$:	PUSHAB	ECHO_DESC	2183
				01	FB	000D0	CALLS	#1, AED_PUTOUTPUT			
		0000G	CF	01	81	000D5	7\$:	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	2184	
20	A9		6A	01	9A	000DA	MOVZBL	AED_B_COLUMN, -(SP)	2185		
			7E	20	A9	9A	000DE	MOVZBL	AED_B_LINE, -(SP)		
			7E	24	A9	9A	000DE	CALLS	#2, AED_SET_CURSOR		
		0000G	CF	02	FB	000E2	TSTW	AED_Q_DEL_LINE	2186		
				58	A9	B5	000E7	BEQL	8\$		
				08	13	000EA	BISB2	#128, AED_L_FLAGS	2189		
		01	69	80	8F	88	000EC	BICB2	#16, AED [FLAGS+1	2190	
		01	A9	10	8A	000F0	BICW2	#8200, AED_L_FLAGS+1	2193		
				2008	8F	AA	000F4	CLRB	TERM_CHAR	2194	
				28	AA	94	000FA	MOVL	#1, R0	2195	
			50	01	D0	000FD	RET		2197		
				04	00100						

; Routine Size: 257 bytes, Routine Base: \$CODE\$ + 1260

ACT_UNDEL_ACE - insert deleted ACE

```
: 1759 2198 1 %SBTTL 'ACT_UNDEL_ACE - insert deleted ACE'
: 1760 2199 1 ROUTINE ACT_UNDEL_ACE =
: 1761 2200 1
: 1762 2201 1 !++
: 1763 2202 1
: 1764 2203 1 FUNCTIONAL DESCRIPTION:
: 1765 2204 1
: 1766 2205 1 This routine retrieves the previously deleted ACE and inserts it
: 1767 2206 1 into the ACL before the first line of the current ACE.
: 1768 2207 1
: 1769 2208 1 CALLING SEQUENCE:
: 1770 2209 1 ACT_UNDEL_ACE ()
: 1771 2210 1
: 1772 2211 1 INPUT PARAMETERS:
: 1773 2212 1 none
: 1774 2213 1
: 1775 2214 1 IMPLICIT INPUTS:
: 1776 2215 1 OWN storage
: 1777 2216 1
: 1778 2217 1 OUTPUT PARAMETERS:
: 1779 2218 1 none
: 1780 2219 1
: 1781 2220 1 IMPLICIT OUTPUTS:
: 1782 2221 1 none
: 1783 2222 1
: 1784 2223 1 ROUTINE VALUE:
: 1785 2224 1 1 if successful
: 1786 2225 1 error status otherwise
: 1787 2226 1
: 1788 2227 1 SIDE EFFECTS:
: 1789 2228 1 The line segment table is updated as necessary, ACE line pointers
: 1790 2229 1 are updated, and the object's ACL is updated as necessary.
: 1791 2230 1
: 1792 2231 1 !--
: 1793 2232 1
: 1794 2233 2 BEGIN
: 1795 2234 2
: 1796 2235 2 LOCAL
: 1797 2236 2 CURRENT_LINE : REF $BBLOCK; ! Address of current line segment
: 1798 2237 2
: 1799 2238 2 IF .AED_Q_DEL_ACE[LINE_L_FLINK] EQ LA AED_Q_DEL_ACE[LINE_L_FLINK]
: 1800 2239 2 THEN
: 1801 2240 2 BEGIN
: 1802 2241 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 1803 2242 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1804 2243 2 TERM_CHAR = 0;
: 1805 2244 2 RETURN 1;
: 1806 2245 2 END;
: 1807 2246 2 NEW_TEXT_LINE = AED_REPSEGMENT ();
: 1808 2247 2 IF .AED_L_FLAGS[AED_V_MODIFIED]
: 1809 2248 2 OR .AED_L_FLAGS[AED_V_INSERT]
: 1810 2249 2 OR .AED_L_FLAGS[AED_V_INSERTTEXT]
: 1811 2250 2 THEN
: 1812 2251 2 BEGIN
: 1813 2252 2 FINISH_ACE ();
: 1814 2253 2 IF .AED_L_FLAGS[AED_V_PROMPT]
: 1815 2254 2 AND .AED_L_FLAGS[AED_V_FIRSTCHAR]
```



```
: 1816      2255 3      THEN
: 1817      2256 4      BEGIN
: 1818      2257 4      NEW_TEXT_LINE[LINE V_DUMMY] = 1;
: 1819      2258 4      AED_W_TOTALSIZE = 0;
: 1820      2259 3      END;
: 1821      2260 3      AED_L_FLAGS[AED V_INSERTTEXT] = 0;
: 1822      2261 3      IF .AED_W_TOTALSIZE EQL 0
: 1823      2262 3      THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
: 1824      2263 3      AED_COMPRESS ();
: 1825      2264 3      AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
: 1826      2265 3      IF NOT .AED_L_STATUS
: 1827      2266 3      THEN
: 1828      2267 4      BEGIN
: 1829      2268 4      AED_L_FLAGS[AED V_ACERROR] = 1;
: 1830      2269 4      AED_POSITION (.AED_L_FIRSTLINE);
: 1831      2270 4      AED_COPSEGMENT (.AED_L_FIRSTLINE);
: 1832      2271 4      INSQUE (AED_T_CURLINE[LINE_L_FLINK],
: 1833      2272 4      .AED_L_FIRSTLINE[LINE_L_BLINK]);
: 1834      2273 4      IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
: 1835      2274 4      THEN AED_L_LASTLINE = AED_T_CURLINE;
: 1836      2275 4      IF .AED_L_BEGINLINE EQL .AED_L_FIRSTLINE
: 1837      2276 4      THEN AED_L_BEGINLINE = AED_T_CURLINE;
: 1838      2277 4      AED_L_FIRSTLINE = AED_T_CURLINE;
: 1839      2278 4      IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
: 1840      2279 4      AND .AED_L_FLAGS[AED V_ENDACL]
: 1841      2280 4      THEN AED_L_FLAGS[AED V_ENDACL] = 0;
: 1842      2281 4      BUFFER_INDEX = 0;
: 1843      2282 4      AED_B_COLUMN = 1;
: 1844      2283 4      AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 1845      2284 4      AED_L_FLAGS[AED V_GOLDREY] = 0;
: 1846      2285 4      AED_L_FLAGS[AED V_ACTIONKEY] = 0;
: 1847      2286 4      TERM_CHAR = 0;
: 1848      2287 4      RETURN 1;
: 1849      2288 3      END;
: 1850      2289 3      AED_L_FLAGS[AED V_MODIFIED] = AED_L_FLAGS[AED V_INSERT] = 0;
: 1851      2290 2      END;
: 1852      2291 2      AED_W_TOTALSIZE = 0;
: 1853      2292 2      AED_L_LASTLINE = .AED_L_FIRSTLINE[LINE_L_BLINK];
: 1854      2293 2      AED_L_FIRSTLINE = 0;
: 1855      2294 2      REMOVED_LINE = .AED_Q_DEL_ACE[LINE_L_FLINK];
: 1856      2295 2      CURRENT_LINE = .AED_Q_DEL_ACE[LINE_L_FLINK];
: 1857      2296 2      UNTIL .CURRENT_LINE EQLA AED_Q_DEL_ACE[LINE_L_FLINK]
: 1858      2297 2      DO
: 1859      2298 3      BEGIN
: 1860      2299 3      AED_L_STATUS = ALLOCATE (.CURRENT_LINE[LINE_W_SIZE] + $BYTEOFFSET (LINE_T_TEXT),
P      2300 3      NEW_TEXT_LINE);
: 1861      2301 3      IF NOT .AED_L_STATUS
: 1862      2302 3      THEN
: 1863      2303 4      BEGIN
: 1864      2304 4      SIGNAL (.AED_L_STATUS);
: 1865      2305 4      RETURN .AED_L_STATUS;
: 1866      2306 3      END;
: 1867      2307 3      CH$MOVE (.CURRENT_LINE[LINE_W_SIZE] + $BYTEOFFSET (LINE_T_TEXT),
: 1868      2308 3      .CURRENT_LINE, .NEW_TEXT_LINE);
: 1869      2309 3      INSQUE (NEW_TEXT [LINE_L_FLINK], AED_L_LASTLINE[LINE_L_FLINK]);
: 1870      2310 3      IF .AED_L_FIRSTLINE EQL 0 THEN AED_L_FIRSTLINE = .NEW_TEXT_LINE;
: 1871      2311 3      AED_L_LASTLINE = .NEW_TEXT_LINE;
: 1872
```



```
: 1873      2312 3      AED W TOTALSIZE = .AED W TOTALSIZE + .NEW TEXT_LINE[LINE_W_SIZE];
: 1874      2313 3      CURRENT_LINE = .CURRENT_LINE[LINE_L_FLINK];
: 1875      2314 2      END;
: 1876      2315 2      IF .AED W TOTALSIZE GTR 0 THEN AED L_FLAGS[AED V_FIRSTCHAR] = 0;
: 1877      2316 2      AED L_FIRSTLINE[LINE_W_FLAGS] = LINE_M_BEGINACE;
: 1878      2317 2      AED_POSITION (.AED L_FIRSTLINE);
: 1879      2318 2      AED_COPSEGMENT (.AED L_FIRSTLINE);
: 1880      2319 2      INSQUE (AED T_CURLINE[LINE_L_FLINK], .AED_L_FIRSTLINE[LINE_L_BLINK]);
: 1881      2320 2      IF .AED L_FLAGS[AED V_ENDACL]
: 1882      2321 2      THEN AED_C_CURACE = 0
: 1883      2322 2      ELSE AED_L_CURACE = .$BLOCK [.AED L_LASTLINE[LINE_L_FLINK], LINE_L_BINACE];
: 1884      2323 2      IF .AED_C_BEGINLINE EQL .AED L_FIRSTLINE THEN AED_C_BEGINLINE = AED_T_CURLINE;
: 1885      2324 2      IF .AED_L_LASTLINE EQL .AED_C_FIRSTLINE THEN AED_C_LASTLINE = AED_T_CURLINE;
: 1886      2325 2      AED_L_FIRSTLINE = AED_T_CURLINE;
: 1887      2326 2      AED_L_FIRSTLINE[LINE_L_BINACE] = 0;
: 1888      2327 2      AED_L_FLAGS[AED V_INSERT] = AED_L_FLAGS[AED V_MODIFIED] = 1;
: 1889      2328 2
: 1890      2329 2      ! Determine where the last line of the newly added ACE falls.
: 1891      2330 2
: 1892      2331 2      TEMP_LINE = .AED_B_LINE;
: 1893      2332 2      NEW_TEXT_LINE = .AED_L_FIRSTLINE;
: 1894      2333 2      UNTIL .NEW_TEXT_LINE EQL .AED_L_LASTLINE
: 1895      2334 2      DO
: 1896      2335 3          BEGIN
: 1897      2336 3              TEMP_LINE = .TEMP_LINE + 1;
: 1898      2337 3              IF .NEW_TEXT_LINE[LINE_V_REPLACE] THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
: 1899      2338 3              NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
: 1900      2339 3          END;
: 1901      2340 2
: 1902      2341 2      ! Now repaint the display. This is done by either scrolling down and repainting
: 1903      2342 2      ! the first part of the display or repainting from the current position to the
: 1904      2343 2      ! end of the display (or the end of the ACL).
: 1905      2344 2
: 1906      2345 2      IF .AED_B_LINE GTR 1
: 1907      2346 2      THEN
: 1908      2347 3          BEGIN
: 1909      2348 3              IF .TEMP_LINE LEQ 10
: 1910      2349 3              THEN
: 1911      2350 4                  BEGIN
: 1912      2351 4                      INCR J FROM 0 TO .TEMP_LINE - .AED_B_LINE
: 1913      2352 4                      DO
: 1914      2353 5                          BEGIN
: 1915      2354 5                              IF .J EQL 0 THEN SCR$SET_CURSOR (1,1);          ! **** TEMP ****
: 1916      2355 5                              SCR$DOWN_SCROLL ();
: 1917      2356 5                          END;
: 1918      2357 4                      NEW_TEXT_LINE = .AED_L_BEGINLINE;
: 1919      2358 4                      INCR J FROM 1 TO .TEMP_LINE
: 1920      2359 4                      DO
: 1921      2360 5                          BEGIN
: 1922      2361 5                              ECHO_DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
: 1923      2362 5                              ECHO_DESC[DSC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
: 1924      2363 5                              SCR$SET_CURSOR (.J, 1);
: 1925      2364 5                              AED_PUTOUTPUT (ECHO_DESC);
: 1926      2365 5                              SCR$ERASE_LINE (.J, .ECHO_DESC[DSC$W_LENGTH] + 1);
: 1927      2366 5                              IF .NEW_TEXT_LINE[LINE_V_REPLACE] THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
: 1928      2367 5                              NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
: 1929      2368 5                          END;
```



```
: 1930      2369  4      END
: 1931      2370  3      ELSE
: 1932      2371  4      BEGIN
: 1933      2372  4      NEW TEXT LINE = .AED T CURLINE[LINE_L_FLINK];
: 1934      2373  4      INCR J FROM .AED_B_LINE TO 20
: 1935      2374  4      DO
: 1936      2375  5      BEGIN
: 1937      2376  5      ECHO_DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
: 1938      2377  5      ECHO_DESC[DSC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
: 1939      2378  5      SCR$SET CURSOR (.J, 1);
: 1940      2379  5      AED_PUTOUTPUT (ECHO_DESC);
: 1941      2380  5      SCR$ERASE LINE (.J, .ECHO_DESC[DSC$W_LENGTH] + 1);
: 1942      2381  5      NEW TEXT LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
: 1943      2382  5      IF .NEW_TEXT_LINE EQ[AED_Q_LINETABLE[LINE_L_FLINK] THEN EXITLOOP;
: 1944      2383  4      END;
: 1945      2384  3      END;
: 1946      2385  2      END;
: 1947      2386  2      BUFFER_INDEX = 0;
: 1948      2387  2      AED_B_COLUMN = 1;
: 1949      2388  2      AED_SET CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 1950      2389  2      AED_L_FLAGS[AED_V_GO[DREY]] = 0;
: 1951      2390  2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 1952      2391  2      TERM_CHAR = 0;
: 1953      2392  2      RETURN 1;
: 1954      2393  2
: 1955      2394  1      END;
```

! End of routine ACT_UNDEL_ACE

```
OFFC 00000 ACT_UNDEL_ACE:
5B 00000000G 00 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 : 2199
5A 0000' CF 9E 00009 MOVAB SCR$SET CURSOR, R11
59 0000' CF 9E 0000E MOVAB NEW_TEXT_LINE, R10
5E 04 C2 00013 MOVAB AED_L_FIRSTLINE, R9
50 10 A9 9E 00016 SUBL2 #4, SP
50 10 A9 D1 0001A MOVAB AED_Q_DEL_ACE, R0
03 12 0001E CMPL AED_Q_DEL_ACE, R0
02B9 31 00020 BNEQ 1$
0000G CF 00 FB 00023 1$: BRW 39$
6A 50 D0 00028 CALLS #0, AED_REPSEGMENT : 2246
C0 A9 95 0002B MOVL R0, NEW_TEXT_LINE
0D 19 0002E TSTB AED_L_FLAGS : 2247
08 C1 A9 05 E0 00030 BLSS 2$
03 C1 A9 06 E0 00035 BBS #5, AED_L_FLAGS+1, 2$ : 2248
008C 31 0003A BBS #6, AED_L_FLAGS+1, 2$ : 2249
0000V CF 00 FB 0003D 2$: BRW 9$
C1 A9 95 00042 CALLS #0, FINISH_ACE : 2252
10 18 00045 TSTB AED_L_FLAGS+1 : 2253
0B C1 A9 04 E1 00047 BGEQ 3$
50 6A D0 0004C BBC #4, AED_L_FLAGS+1, 3$ : 2254
0A A0 04 88 0004F MOVL NEW_TEXT_LINE, R0 : 2257
0284 C9 B4 00053 BISB2 #4, -10(R0)
C1 A9 40 8F 8A 00057 CLRW AED_W_TOTALSIZE : 2258
0284 C9 B5 0005C 3$: BICB2 #64, AED_L_FLAGS+1 : 2260
TSTW AED_W_TOTALSIZE : 2261
```


0000G	7A		03	12	00060	BNEQ	4\$	:	2262
	CF		9A	DO	00062	MOVL	@NEW TEXT LINE, NEW_TEXT_LINE	:	2263
	7E	0284	00	FB	00065	CALLS	#0, AED_COMPRESS	:	2264
0000G	CF		C9	3C	0006A	MOVZWL	AED_W_TOTALSIZE, -(SP)	:	2265
4C	A9		01	FB	0006F	CALLS	#1, AED_UPDATEACL	:	2266
	47	4C	50	DO	00074	MOVL	RO, AED_L_STATUS	:	2267
C0	A9	40	A9	E8	00078	BLBS	AED_L_STATUS, 8\$	:	2268
			8F	88	0007C	BISB2	#64, AED_L_FLAGS	:	2269
			69	DD	00081	PUSHL	AED_L_FIRSTLINE	:	2270
0000G	CF		01	FB	00083	CALLS	#1, AED_POSITION	:	2271
			69	DD	00088	PUSHL	AED_L_FIRSTLINE	:	2272
0000G	CF		01	FB	0008A	CALLS	#1, AED_COPSEGMENT	:	2273
	50		69	DO	0008F	MOVL	AED_L_FIRSTLINE, RO	:	2274
04	B0	70	A9	0E	00092	INSQUE	AED_T_CURLINE, @4(RO)	:	2275
	69	04	A9	D1	00097	CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	:	2276
			05	12	0009B	BNEQ	5\$	:	2277
04	A9	70	A9	9E	0009D	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	:	2278
	69	08	A9	D1	000A2	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	:	2279
			05	12	000A6	BNEQ	6\$	:	2280
08	A9	70	A9	9E	000A8	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	:	2281
	69	70	A9	9E	000AD	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	:	2282
04	A9		69	D1	000B1	CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE	:	2283
			09	13	000B5	BEQL	7\$	:	2284
04	C0		05	E1	000B7	BBC	#5, AED_L_FLAGS, 7\$	:	2285
	C0		20	8A	000BC	BICB2	#32, AED_C_FLAGS	:	2286
			0205	31	000C0	BRW	38\$	:	2287
	C0	A9	8F	AA	000C3	BICW2	#8320, AED_L_FLAGS	:	2288
		2080	C9	B4	000C9	CLRW	AED_W_TOTALSIZE	:	2289
		0284	69	DO	000CD	MOVL	AED_L_FIRSTLINE, RO	:	2290
	50		A0	DO	000D0	MOVL	4(RO), AED_L_LASTLINE	:	2291
04	A9	04	69	D4	000D5	CLRL	AED_L_FIRSTLINE	:	2292
			A9	DO	000D7	MOVL	AED_Q_DEL_ACE, REMOVED_LINE	:	2293
F8	AA	10	A9	DO	000DC	MOVL	AED_Q_DEL_ACE, CURRENT_LINE	:	2294
	56	10	A9	9E	000E0	MOVAB	AED_Q_DEL_ACE, RO	:	2295
	50		56	D1	000E4	CMPL	CURRENT_LINE, RO	:	2296
	50		03	12	000E7	BNEQ	11\$	:	2297
			009E	31	000E9	BRW	19\$	:	2298
			5A	DD	000EC	PUSHL	R10	:	2299
	57	08	A6	3C	000EE	MOVZWL	8(CURRENT_LINE), R7	:	2300
	57		14	C0	000F2	ADDL2	#20, R7	:	2301
04	AE		57	DO	000F5	MOVL	R7, 4(SP)	:	2302
		04	AE	9F	000F9	PUSHAB	4(SP)	:	2303
			02	FB	000FC	CALLS	#2, LIB\$GET_VM	:	2304
00000000G	00		50	DO	00103	MOVL	RO, VM_STATUS	:	2305
	58		58	E9	00106	BLBC	VM_STATUS, 12\$	:	2306
	07		00	2C	00109	MOVCS	#0, (SP), #0, R7, @NEW_TEXT_LINE	:	2307
	6E		BA		0010E			:	2308
		00	58	DO	00110	MOVL	VM_STATUS, AED_L_STATUS	:	2309
4C	A9	4C	A9	E8	00114	BLBS	AED_L_STATUS, 17\$	:	2310
	4E		03	E1	00118	BBC	#3, AED_L_FLAGS, 13\$	:	2311
12	C0		01	DD	0011D	PUSHL	#1	:	2312
			15	DD	0011F	PUSHL	#21	:	2313
00000000G	00		02	FB	00121	CALLS	#2, SCR\$ERASE_PAGE	:	2314
			01	DD	00128	PUSHL	#1	:	2315
			15	DD	0012A	PUSHL	#21	:	2316
	6B		02	FB	0012C	CALLS	#2, SCR\$SET_CURSOR	:	2317
		4C	A9	DD	0012F	PUSHL	AED_L_STATUS	:	2318

51				00	01	FB	00132	CALLS	#1, LIB\$SIGNAL	
51				A9	03	E1	00139	BBC	#3, AED_L_FLAGS, 14\$	
				7E	A9	9A	0013E	MOVZBL	AED_B_COLUMN, -(SP)	
				7E	A9	9A	00142	MOVZBL	AED_B_LINE, -(SP)	
				6B	02	FB	00146	CALLS	#2, SCR\$SET CURSOR	
				50	A9	D0	00149	14\$:	MOVL	AED_L_STATUS, R0
				07	50	93	0014D	BITB	R0, #7	
					01	12	00150	BNEQ	15\$	
						04	00152	RET		
					00	EF	00153	15\$:	EXTZV	#0, #3, R0, R1
					00	ED	00158	CMPZV	#0, #3, AED_L_WORSTERR, R1	
					01	19	0015E	BLSS	16\$	
						04	00160	RET		
					50	D0	00161	16\$:	MOVL	R0, AED_L_WORSTERR
						04	00165	RET		
					57	28	00166	17\$:	MOV C3	R7, (CURRENT_LINE), @NEW TEXT LINE
					BA	0E	0016B	INSQUE	@NEW TEXT LINE, @AED_L_LASTLINE	
					69	D5	00170	TSTL	AED_C_FIRSTLINE	
					03	12	00172	BNEQ	18\$	
					6A	D0	00174	MOVL	NEW TEXT LINE, AED_L_FIRSTLINE	
					6A	D0	00177	18\$:	MOVL	NEW TEXT LINE, R0
					50	D0	0017A	MOVL	R0, AED_C_LASTLINE	
					A0	A0	0017E	ADDW2	8(R0), AED_W_TOTALSIZE	
					66	D0	00184	MOVL	(CURRENT_LINE), CURRENT_LINE	
					56	31	00187	BRW	10\$	
					C9	B5	0018A	19\$:	TSTW	AED_W_TOTALSIZE
					04	13	0018E	BEQL	20\$	
					10	8A	00190	BICB2	#16, AED_L_FLAGS+1	
					69	D0	00194	20\$:	MOVL	AED_L_FIRSTLINE, R0
					01	B0	00197	MOVW	#1, -10(R0)	
					50	DD	0019B	PUSHL	R0	
					01	FB	0019D	CALLS	#1, AED POSITION	
					69	DD	001A2	PUSHL	AED_L_FIRSTLINE	
					01	FB	001A4	CALLS	#1, AED COPSEGMENT	
					69	D0	001A9	MOVL	AED_L_FIRSTLINE, R0	
					A9	0E	001AC	INSQUE	AED_T_CURLINE, @4(R0)	
					05	E1	001B1	BBC	#5, AED_L_FLAGS, 21\$	
					A9	D4	001B6	CLRL	AED_L_CURACE	
					09	11	001B9	BRB	22\$	
					B9	D0	001BB	21\$:	MOVL	@AED_L_LASTLINE, R0
					A0	D0	001BF	MOVL	12(R0), AED_L_CURACE	
					A9	D1	001C4	22\$:	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE
					05	12	001C8	BNEQ	23\$	
					A9	9E	001CA	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	
					A9	D1	001CF	23\$:	CMPL	AED_L_LASTLINE, AED_C_FIRSTLINE
					05	12	001D3	BNEQ	24\$	
					A9	9E	001D5	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	
					A9	9E	001DA	24\$:	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE
					69	D0	001DE	MOVL	AED_L_FIRSTLINE, R0	
					A0	D4	001E1	CLRL	12(R0)	
					8F	A8	001E4	BISW2	#8320, AED_L_FLAGS	
					A9	9A	001EA	MOVZBL	AED_B_LINE, R2	
					52	D0	001EE	MOVL	R2, TEMP LINE	
					50	D0	001F2	MOVL	R0, NEW TEXT LINE	
					6A	D0	001F5	25\$:	MOVL	NEW TEXT LINE, R0
					50	D1	001F8	CMPL	R0, AED_C_LASTLINE	
					10	13	001FC	BEQL	27\$	

03	OA	A0	F4	AA	D6	001FE	INCL	TEMP LINE	2336
		6A		03	E1	00201	BBC	#3, TO(R0), 26\$	2337
		7A		60	D0	00206	MOVL	(R0), NEW_TEXT_LINE	
				9A	D0	00209	MOVL	@NEW_TEXT_LINE, NEW_TEXT_LINE	2338
		01		E7	11	0020C	BRB	25\$	2333
				52	91	0020E	CMPB	R2, #1	2345
				6D	1B	00211	BLEQU	34\$	
		0A	F4	AA	D1	00213	CMPL	TEMP_LINE, #10	2348
54	F4	AA		69	14	00217	BGTR	35\$	
		53		52	C3	00219	SUBL3	R2, TEMP_LINE, R4	2351
				01	CE	0021E	MNEGL	#1, J	
				10	11	00221	BRB	30\$	
				07	12	00223	BNEQ	29\$	2354
				01	DD	00225	PUSHL	#1	
				01	DD	00227	PUSHL	#1	
		6B		02	FB	00229	CALLS	#2, SCR\$SET_CURSOR	
EC	00000000G	00		00	FB	0022C	CALLS	#0, SCR\$DOWN_SCROLL	2355
		53		54	F3	00233	AOBLEQ	R4, J, 28\$	2351
		6A	08	A9	D0	00237	MOVL	AED_L_BEGINLINE, NEW_TEXT_LINE	2357
		53	F4	AA	D0	0023B	MOVL	TEMP_LINE, R3	2358
				52	D4	0023F	CLRL	J	
				39	11	00241	BRB	33\$	
		50		6A	D0	00243	MOVL	NEW TEXT LINE, R0	2361
	EC	AA	08	A0	B0	00246	MOVW	8(R0), ECHO_DESC	
	FO	AA	14	A0	9E	0024B	MOVAB	20(R0), ECHO_DESC+4	2362
				01	DD	00250	PUSHL	#1	2363
		6B		52	DD	00252	PUSHL	J	
				02	FB	00254	CALLS	#2, SCR\$SET_CURSOR	
	0000G	CF	EC	AA	9F	00257	PUSHAB	ECHO_DESC	2364
		7E	EC	01	FB	0025A	CALLS	#1, AED_PUTOUTPUT	
				AA	3C	0025F	MOVZWL	ECHO_DESC, -(SP)	2365
				6E	D6	00263	INCL	(SP)	
				52	DD	00265	PUSHL	J	
	00000000G	00		02	FB	00267	CALLS	#2, SCR\$ERASE_LINE	
		50		6A	D0	0026E	MOVL	NEW_TEXT_LINE, R0	2366
03	OA	A0		03	E1	00271	BBC	#3, 10(R0), 32\$	
		6A		60	D0	00276	MOVL	(R0), NEW_TEXT_LINE	
		7A		9A	D0	00279	MOVL	@NEW_TEXT_LINE, NEW_TEXT_LINE	2367
C3		52		53	F3	0027C	AOBLEQ	R3, J, 31\$	2358
				46	11	00280	BRB	38\$	2348
		6A	70	A9	D0	00282	MOVL	AED_T_CURLINE, NEW_TEXT_LINE	2372
		53		6A	D0	00286	MOVL	NEW_TEXT_LINE, R3	2376
				52	D7	00289	DECL	J	
				37	11	0028B	BRB	37\$	
	EC	AA	08	A3	B0	0028D	MOVW	8(R3), ECHO_DESC	
	FO	AA	14	A3	9E	00292	MOVAB	20(R3), ECHO_DESC+4	2377
				01	DD	00297	PUSHL	#1	2378
				52	DD	00299	PUSHL	J	
		6B		02	FB	0029B	CALLS	#2, SCR\$SET_CURSOR	
			EC	AA	9F	0029E	PUSHAB	ECHO_DESC	2379
	0000G	CF	EC	01	FB	002A1	CALLS	#1, AED_PUTOUTPUT	
		7E		AA	3C	002A6	MOVZWL	ECHO_DESC, -(SP)	2380
				6E	D6	002AA	INCL	(SP)	
				52	DD	002AC	PUSHL	J	
	00000000G	00		02	FB	002AE	CALLS	#2, SCR\$ERASE_LINE	
		7A		9A	D0	002B5	MOVL	@NEW_TEXT_LINE, NEW_TEXT_LINE	2381
		53		6A	D0	002B8	MOVL	NEW_TEXT_LINE, R3	2382

AED\$MAIN
V04-000

ACT_UNDEL_ACE - insert deleted ACE

F 15
15-Sep-1984 23:47:14
14-Sep-1984 11:52:29

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[ACLEDT.SRC]AEDMAIN.B32;1

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	50	F0	A9	9E	002BB	MOVAB	AED_Q LINETABLE, R0	:
	50		53	D1	002BF	CMPL	R3, -R0	:
			04	13	002C2	BEQL	38\$:
C5	52		14	F3	002C4	AOBLEQ	#20, J, 36\$	: 2373
		E8	AA	D4	002C8	CLRL	BUFFER INDEX	: 2386
	E0		01	90	002CB	MOVB	#1, AED_B COLUMN	: 2387
	7E	E0	A9	9A	002CF	MOVZBL	AED_B_COLUMN, -(SP)	: 2388
	7E	E4	A9	9A	002D3	MOVZBL	AED_B_LINE, -(SP)	:
0000G	CF		02	FB	002D7	CALLS	#2, AED SET CURSOR	:
C1	A9	2008	8F	AA	002DC	BICW2	#8200, AED_C_FLAGS+1	: 2390
		10	AA	94	002E2	CLRB	TERM_CHAR	: 2391
	50		01	D0	002E5	MOVL	#1, R0	: 2392
			04	002E8	RET			: 2394

; Routine Size: 745 bytes, Routine Base: \$CODE\$ + 136E

ACT_MOVE_WRD - move to word boundary

```

: 1957 2395 1 %SBTTL 'ACT_MOVE_WRD - move to word boundary'
: 1958 2396 1 ROUTINE ACT_MOVE_WRD =
: 1959 2397 1
: 1960 2398 1 ++
: 1961 2399 1
: 1962 2400 1 FUNCTIONAL DESCRIPTION:
: 1963 2401 1
: 1964 2402 1 This routine goes to the next word boundary (first non-alphanumeric
: 1965 2403 1 character) in either the forward or backward direction.
: 1966 2404 1
: 1967 2405 1 CALLING SEQUENCE:
: 1968 2406 1 ACT_MOVE_WRD ( )
: 1969 2407 1
: 1970 2408 1 INPUT PARAMETERS:
: 1971 2409 1 none
: 1972 2410 1
: 1973 2411 1 IMPLICIT INPUTS:
: 1974 2412 1 OWN storage
: 1975 2413 1
: 1976 2414 1 OUTPUT PARAMETERS:
: 1977 2415 1 none
: 1978 2416 1
: 1979 2417 1 IMPLICIT OUTPUTS:
: 1980 2418 1 none
: 1981 2419 1
: 1982 2420 1 ROUTINE VALUE:
: 1983 2421 1 1 if successful
: 1984 2422 1 error status otherwise
: 1985 2423 1
: 1986 2424 1 SIDE EFFECTS:
: 1987 2425 1 The line segment table is updated as necessary, ACE line pointers
: 1988 2426 1 are updated, and the object's ACL is updated as necessary.
: 1989 2427 1
: 1990 2428 1 --
: 1991 2429 1
: 1992 2430 2 BEGIN
: 1993 2431 2
: 1994 2432 2 IF NOT .AED_L_FLAGS[AED_V_BACKWARD]
: 1995 2433 2 THEN
: 1996 2434 3 BEGIN
: 1997 2435 3 IF .BUFFER_INDEX GEQ .SEGMENT_SIZE
: 1998 2436 3 THEN
: 1999 2437 4 BEGIN
: 2000 2438 4 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 2001 2439 4 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2002 2440 4 TERM_CHAR = 0;
: 2003 2441 4 RETURN 1;
: 2004 2442 3 END;
: 2005 2443 4 WHILE (.BUFFER_CHAR GEQ 'A' AND .BUFFER_CHAR LEQ 'Z')
: 2006 2444 4 OR (.BUFFER_CHAR GEQ '0' AND .BUFFER_CHAR LEQ '9')
: 2007 2445 3 DO
: 2008 2446 4 BEGIN
: 2009 2447 4 BUFFER_INDEX = .BUFFER_INDEX + 1;
: 2010 2448 4 IF .BUFFER_INDEX GEQ .SEGMENT_SIZE
: 2011 2449 4 THEN
: 2012 2450 5 BEGIN
: 2013 2451 5 BUFFER_INDEX = .BUFFER_INDEX - 1;
```



```
ACT_MOVE_WRD - move to word boundary

: 2014      2452  5      EXITLOOP;
: 2015      2453  4      END;
: 2016      2454  3      END;
: 2017      2455  3      END
: 2018      2456  2      ELSE
: 2019      2457  3      BEGIN
: 2020      2458  3      BUFFER_INDEX = .BUFFER_INDEX - 2;
: 2021      2459  3      IF .BUFFER_INDEX GEQ 0
: 2022      2460  3      THEN
: 2023      2461  4      BEGIN
: 2024      2462  5      WHILE (.BUFFER_CHAR GEQ 'A' AND .BUFFER_CHAR LEQ 'Z')
: 2025      2463  5      OR (.BUFFER_CHAR GEQ '0' AND .BUFFER_CHAR LEQ '9')
: 2026      2464  4      DO
: 2027      2465  5      BEGIN
: 2028      2466  5      BUFFER_INDEX = .BUFFER_INDEX - 1;
: 2029      2467  5      IF .BUFFER_INDEX LSS 0 THEN EXITLOOP;
: 2030      2468  4      END;
: 2031      2469  4      END
: 2032      2470  3      ELSE BUFFER_INDEX = -1;
: 2033      2471  2      END;
: 2034      2472  2      BUFFER_INDEX = .BUFFER_INDEX + 1;      ! First char of word
: 2035      2473  2      AED_B_COLUMN = .BUFFER_INDEX + 1;
: 2036      2474  2      AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 2037      2475  2      AED_L_FLAGS[AED_V_GO[KEY]] = 0;
: 2038      2476  2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2039      2477  2      TERM_CHAR = 0;
: 2040      2478  2      RETURN 1;
: 2041      2479  2
: 2042      2480  1      END;

! End of routine ACT_MOVE_WRD
```

				0004 00000 ACT_MOVE_WRD:			
		52	0000'	CF 9E 00002	Save R2		: 2396
		38	0000'	CF E8 00007	MOVAB	BUFFER_INDEX, R2	
62	0000'	10		00 ED 0000C	BLBS	AED_L_FLAGS+1, 4\$	: 2432
		50	0000'	CF 9E 00015 1\$:	CMPZV	#0, #16, SEGMENT_SIZE, BUFFER_INDEX	: 2435
		50	00 B240	9A 0001A	BLEQ	10\$	
41	8F	8F		50 91 0001F	MOVAB	INPUT_BUFFER, R0	: 2443
		06	1F 00023	50 91 0001F	MOVZBL	@BUFFER_INDEX[R0], R0	
5A	8F	8F		06 1F 00023	CMPB	R0, #65	
		0A	1B 00029	50 91 00025	BLSSU	2\$	
		30		50 91 0002B 2\$:	CMPB	R0, #90	
		39		44 1F 0002E	BLEQU	3\$	
		3F	1A 00033	50 91 00030	CMPB	R0, #48	: 2444
		62	D6 00035 3\$:	50 91 00030	BLSSU	9\$	
62	0000'	10		00 ED 00037	CMPB	R0, #57	
		05	14 0003E	62 D6 00035 3\$:	BGTRU	9\$	
		62	D7 00040	00 ED 00037	INCL	BUFFER_INDEX	: 2447
		30	11 00042	D5 14 0003E	CMPZV	#0, #16, SEGMENT_SIZE, BUFFER_INDEX	: 2448
		02	C2 00044 4\$:	62 D7 00040	BGTR	1\$	
		28	19 00047	30 11 00042	DECL	BUFFER_INDEX	: 2451
				02 C2 00044 4\$:	BRB	9\$	: 2450
				28 19 00047	SUBL2	#2, BUFFER_INDEX	: 2458
					BLSS	8\$	: 2459

	51		62	D0	00049		MOVL	BUFFER_INDEX, R1		2462
	50	0000'CF	41	9A	0004C	5\$:	MOVZBL	INPUT_BUFFER[R1], R0		
41	8F		50	91	00052		CMPB	R0, #85		
			06	1F	00056		BLSSU	6\$		
5A	8F		50	91	00058		CMPB	R0, #90		
			0A	1B	0005C		BLEQU	7\$		
	30		50	91	0005E	6\$:	CMPB	R0, #48		2463
			11	1F	00061		BLSSU	9\$		
	39		50	91	00063		CMPB	R0, #57		
			0C	1A	00066		BGTRU	9\$		
			62	D7	00068	7\$:	DECL	BUFFER_INDEX		2466
	51		62	D0	0006A		MOVL	BUFFER_INDEX, R1		2467
			DD	18	0006D		BGEQ	5\$		
			03	11	0006F		BRB	9\$		
	62		01	CE	00071	8\$:	MNEGL	#1, BUFFER_INDEX		2470
			62	D6	00074	9\$:	INCL	BUFFER_INDEX		2472
0000' CF	62		01	81	00076		ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN		2473
	7E	0000'	CF	9A	0007C		MOVZBL	AED_B_COLUMN, -(SP)		2474
	7E	0000'	CF	9A	00081		MOVZBL	AED_B_LINE, -(SP)		
0000G	CF		02	FB	00086		CALLS	#2, AED SET CURSOR		
0000'	CF	2008	8F	AA	0008B	10\$:	BICW2	#8200, AED_C_FLAGS+1		2476
		28	A2	94	00092		CLRB	TERM_CHAR		2477
	50		01	D0	00095		MOVL	#1, R0		2478
			04	00098			RET			2480

; Routine Size: 153 bytes, Routine Base: \$CODE\$ + 1657

ACT_MOVE_ACE - move to ACE boundary

```
2044 2481 1 %SBTTL 'ACT_MOVE_ACE - move to ACE boundary'
2045 2482 1 ROUTINE ACT_MOVE_ACE =
2046 2483 1
2047 2484 1 |++
2048 2485 1
2049 2486 1 FUNCTIONAL DESCRIPTION:
2050 2487 1
2051 2488 1 This routine advances or backs up over an ACE depending on the
2052 2489 1 state of the BACKWARD flag.
2053 2490 1
2054 2491 1 CALLING SEQUENCE:
2055 2492 1 ACT_MOVE_ACE ()
2056 2493 1
2057 2494 1 INPUT PARAMETERS:
2058 2495 1 none
2059 2496 1
2060 2497 1 IMPLICIT INPUTS:
2061 2498 1 OWN storage
2062 2499 1
2063 2500 1 OUTPUT PARAMETERS:
2064 2501 1 none
2065 2502 1
2066 2503 1 IMPLICIT OUTPUTS:
2067 2504 1 none
2068 2505 1
2069 2506 1 ROUTINE VALUE:
2070 2507 1 1 if successful
2071 2508 1 error status otherwise
2072 2509 1
2073 2510 1 SIDE EFFECTS:
2074 2511 1 The line segment table is updated as necessary, ACE line pointers
2075 2512 1 are updated, and the object's ACL is updated as necessary.
2076 2513 1
2077 2514 1 |--
2078 2515 1
2079 2516 2 BEGIN
2080 2517 2
2081 2518 2 NEW_TEXT_LINE = AED_REPSEGMENT ();
2082 2519 2 IF .AED_L_FLAGS[AED_V_MODIFIED]
2083 2520 2 OR .AED_L_FLAGS[AED_V_INSERT]
2084 2521 2 OR .AED_L_FLAGS[AED_V_INSERTTEXT]
2085 2522 2 THEN
2086 2523 3 BEGIN
2087 2524 3 FINISH ACE ();
2088 2525 3 IF .AED_L_FLAGS[AED_V_PROMPT]
2089 2526 3 AND .AED_L_FLAGS[AED_V_FIRSTCHAR]
2090 2527 3 THEN
2091 2528 4 BEGIN
2092 2529 4 NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
2093 2530 4 AED_W_TOTALSIZE = 0;
2094 2531 4 END;
2095 2532 3 AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
2096 2533 3 IF .AED_W_TOTALSIZE EQL 0 THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
2097 2534 3 AED_COMPRESS ();
2098 2535 3 AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
2099 2536 3 IF NOT .AED_L_STATUS
2100 2537 3 THEN
```



```
2101 2538 4 BEGIN
2102 2539 4 AED_L_FLAGS[AED_V_ACERROR] = 1;
2103 2540 4 AED_POSITION (.AED_L_FIRSTLINE);
2104 2541 4 AED_COPSEGMENT (.AED_L_FIRSTLINE);
2105 2542 4 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
2106 2543 4 .AED_C_FIRSTLINE[LINE_L_BLINK]);
2107 2544 4 IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
2108 2545 4 THEN AED_C_LASTLINE = AED_T_CURLINE;
2109 2546 4 IF .AED_C_BEGINLINE EQL .AED_L_FIRSTLINE
2110 2547 4 THEN AED_C_BEGINLINE = AED_T_CURLINE;
2111 2548 4 AED_L_FIRSTLINE = AED_T_CURLINE;
2112 2549 4 IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
2113 2550 4 AND .AED_C_FLAGS[AED_V_ENDACL]
2114 2551 4 THEN AED_L_FLAGS[AED_V_ENDACL] = 0;
2115 2552 4 BUFFER_INDEX = 0;
2116 2553 4 AED_B_COLUMN = 1;
2117 2554 4 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
2118 2555 4 AED_L_FLAGS[AED_V_GOLDREY] = 0;
2119 2556 4 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
2120 2557 4 TERM_CHAR = 0;
2121 2558 4 RETURN 1;
2122 2559 4 END;
2123 2560 3 AED_L_FLAGS[AED_V_MODIFIED] = AED_L_FLAGS[AED_V_INSERT] = 0;
2124 2561 3 END;
2125 2562 2
2126 2563 2 IF NOT .AED_L_FLAGS[AED_V_BACKWARD]
2127 2564 2 THEN
2128 2565 3 BEGIN
2129 2566 3 AED_L_FIRSTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
2130 2567 3 IF .AED_L_FIRSTLINE EQ[AED_Q_LINETAB][LINE_L_FLINK]
2131 2568 3 THEN AED_C_FLAGS[AED_V_ENDACL] = 1;
2132 2569 3 AED_POSITION (.AED_L_FIRSTLINE);
2133 2570 3
2134 2571 3 ! If at the end of the ACL, set up to append. Otherwise setup the next line.
2135 2572 3
2136 2573 3 IF .AED_L_FLAGS[AED_V_ENDACL]
2137 2574 3 THEN
2138 2575 4 BEGIN
2139 2576 4 BUFFER_INDEX = 0;
2140 2577 4 AED_B_COLUMN = 1;
2141 2578 4 AED_L_FLAGS[AED_V_INSERTTEXT] = 1;
2142 2579 4 AED_W_TOTALSIZE = SEGMENT_SIZE = 0;
2143 2580 4 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
2144 2581 4 .AED_C_FIRSTLINE[LINE_L_BLINK]);
2145 2582 4 AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
2146 2583 4 AED_L_FIRSTLINE[LINE_Q_FLAGS] = LINE_M_BEGINACE;
2147 2584 4 AED_L_CURACE = 0;
2148 2585 4 IF .AED_L_FLAGS[AED_V_PROMPT]
2149 2586 4 THEN
2150 2587 5 BEGIN
2151 2588 5 AED_B_ACETYPE = 0;
2152 2589 5 AED_L_FLAGS[AED_V_NOITEMSEL] = 0;
2153 2590 5 AED_SELECTFIELD (BUFFER_INDEX);
2154 2591 5 ECHO_DESC[DSC$W_LENGTH] = .AED_T_CURLINE[LINE_W_SIZE];
2155 2592 5 ECHO_DESC[DSC$A_POINTER] = AED_T_CURLINE[LINE_T_TEXT];
2156 2593 5 SCR$SET_CURSOR (.AED_B_LINE, 1);
2157 2594 5 AED_PUTOUTPUT (ECHO_DESC);
```



```
: 2158      2595 5      SCR$ERASE LINE (.AED B_LINE, .SEGMENT_SIZE + 1);
: 2159      2596 5      AED_B_COLUMN = .BUFFER_INDEX + 1;
: 2160      2597 4      END;
: 2161      2598 4      END
: 2162      2599 3      ELSE
: 2163      2600 4      BEGIN
: 2164      2601 4      AED COPSEGMENT (.AED L_FIRSTLINE);
: 2165      2602 4      INSQUE (AED T_CURLINE[LINE L_FLINK],
: 2166      2603 4      .AED [FIRSTLINE[LINE L_BLINK]]);
: 2167      2604 4      AED_L_FIRSTLINE = AED_L_LASTLINE = AED T_CURLINE;
: 2168      2605 4      AED_W_TOTALSIZE = .AED [FIRSTLINE[LINE_W_SIZE]];
: 2169      2606 4      UNTIL .AED_L_LASTLINE[LINE_V_ENDACE]
: 2170      2607 4      DO
: 2171      2608 5      BEGIN
: 2172      2609 5      IF .AED L_LASTLINE EQLA AED T_CURLINE
: 2173      2610 5      THEN AED [LASTLINE = .AED [LASTLINE[LINE L_FLINK];
: 2174      2611 5      AED_L_LASTLINE = .AED L_LASTLINE[LINE L_FLINK];
: 2175      2612 5      AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_LASTLINE[LINE_W_SIZE];
: 2176      2613 4      END;
: 2177      2614 4      AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BINACE];
: 2178      2615 4      BUFFER_INDEX = 0;
: 2179      2616 4      AED_B_COLUMN = 1;
: 2180      2617 3      END;
: 2181      2618 3      END
: 2182      2619 3      ELSE
: 2183      2620 3      BEGIN
: 2184      2621 3      AED_L_LASTLINE = AED_L_FIRSTLINE = .AED_L_FIRSTLINE[LINE_L_BLINK];
: 2185      2622 3      AED_W_TOTALSIZE = .AED_L_FIRSTLINE[LINE_W_SIZE];
: 2186      2623 3      UNTIL .AED_L_FIRSTLINE[LINE_V_BEGINACE]
: 2187      2624 3      DO
: 2188      2625 4      BEGIN
: 2189      2626 4      IF .AED L_BEGINLINE EQLA .AED L_FIRSTLINE
: 2190      2627 4      THEN AED [BEGINLINE = .AED L_FIRSTLINE[LINE L_BLINK];
: 2191      2628 4      AED_L_FIRSTLINE = .AED L_FIRSTLINE[LINE L_BLINK];
: 2192      2629 4      AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_FIRSTLINE[LINE_W_SIZE];
: 2193      2630 3      END;
: 2194      2631 3      AED_POSITION (.AED L_FIRSTLINE);
: 2195      2632 3      AED COPSEGMENT (.AED L_FIRSTLINE);
: 2196      2633 3      INSQUE (AED T_CURLINE[LINE L_FLINK],
: 2197      2634 3      .AED [FIRSTLINE[LINE L_BLINK]]);
: 2198      2635 3      IF .AED_L_BEGINLINE EQL .AED [FIRSTLINE THEN AED_L_BEGINLINE = AED T_CURLINE;
: 2199      2636 3      IF .AED_L_LASTLINE EQL .AED [FIRSTLINE THEN AED [LASTLINE = AED T_CURLINE;
: 2200      2637 3      AED_L_FIRSTLINE = AED T_CURLINE;
: 2201      2638 3      AED_W_TOTALSIZE = .AED [FIRSTLINE[LINE_W_SIZE];
: 2202      2639 3      AED_L_CURACE = .AED L_FIRSTLINE[LINE_L_BINACE];
: 2203      2640 3      AED_L_FLAGS[AED_V_ENDACL] = 0;
: 2204      2641 3      AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
: 2205      2642 3      BUFFER_INDEX = 0;
: 2206      2643 3      AED_B_COLUMN = 1;
: 2207      2644 3      END;
: 2208      2645 2      AED SET CURSOR (.AED B_LINE, .BUFFER_INDEX + 1);
: 2209      2646 2      AED_L_FLAGS[AED_V_GOLDREY] = 0;
: 2210      2647 2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2211      2648 2      TERM_CHAR = 0;
: 2212      2649 2      RETURN 1;
: 2213      2650 2
: 2214      2651 1      END;
```

! End of routine ACT_MOVE_ACE

				007C 00000 ACT_MOVE_ACE:			
		56	0000G	CF 9E 00002	WORD	Save R2,R3,R4,R5,R6	2482
		55	0000G	CF 9E 00007	MOVAB	AED_COPSEGMENT, R6	
		54	0000'	CF 9E 0000C	MOVAB	AED_POSITION, R5	
		53	0000'	CF 9E 00011	MOVAB	BUFFER INDEX, R4	
	0000G	CF		00 FB 00016	MOVAB	AED_L_FIRSTLINE, R3	
	18	A4		50 D0 0001B	CALLS	#0, AED_REPSEGMENT	2518
			C0	A3 95 0001F	MOVL	R0, NEW_TEXT_LINE	
				0D 19 00022	TSTB	AED_L_FLAGS	2519
08				05 E0 00024	BLSS	1\$	
03	C1	A3		06 E0 00029	BBS	#5, AED_L_FLAGS+1, 1\$	2520
	C1	A3		0095 31 0002E	BBS	#6, AED_L_FLAGS+1, 1\$	2521
				00 FB 00031	BRW	8\$	
	0000V	CF		A3 95 00036	CALLS	#0, FINISH_ACE	2524
			C1	11 18 00039	TSTB	AED_L_FLAGS+1	2525
				04 E1 0003B	BGEQ	2\$	
0C	C1	A3		A4 D0 00040	BBC	#4, AED_L_FLAGS+1, 2\$	2526
		50	18	04 88 00044	MOVL	NEW_TEXT_LINE, R0	2529
	0A	A0		C3 B4 00048	BISB2	#4, 10(R0)	
			0284	8F 8A 0004C	CLRW	AED_W_TOTALSIZE	2530
	C1	A3		05 12 00055	BICB2	#64, AED_L_FLAGS+1	2532
			40	B4 D0 00057	TSTW	AED_W_TOTALSIZE	2533
			0284	00 FB 0005C	BNEQ	3\$	
	18	A4	18	01 FB 00066	MOVL	NEW_TEXT_LINE, NEW_TEXT_LINE	
	0000G	CF		50 D0 0006B	CALLS	#0, AED_COMPRESS	2534
		7E	0284	A3 E8 0006F	MOVZWL	AED_W_TOTALSIZE, -(SP)	2535
	0000G	CF		63 DD 00078	CALLS	#1, AED_UPDATEACL	
	4C	A3		01 FB 0007A	MOVL	R0, AED_L_STATUS	
		4D	4C	63 DD 0007D	BLBS	AED_L_STATUS, 7\$	2536
	C0	A3	40	01 FB 0007F	BISB2	#64, AED_L_FLAGS	2539
				63 DD 00082	PUSHL	AED_L_FIRSTLINE	2540
		65		01 FB 00085	CALLS	#1, AED_POSITION	
				63 DD 00088	PUSHL	AED_L_FIRSTLINE	2541
		66		01 FB 0008A	CALLS	#1, AED_COPSEGMENT	
		50		05 12 0008E	MOVL	AED_L_FIRSTLINE, R0	2543
	04	B0	70	A3 9E 00090	INSQUE	AED_T_CURLINE, 34(R0)	
		63	04	A3 D1 00095	CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	2544
				05 12 00099	BNEQ	4\$	
	04	A3	70	A3 9E 0009B	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	2545
		63	08	A3 D1 000A0	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	2546
				05 12 000A8	BNEQ	5\$	
	08	A3	70	A3 9E 000AA	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	2547
		63	70	A3 9E 000AF	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	2548
	04	A3		63 D1 000B3	CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE	2549
				09 13 000B5	BEQL	6\$	
04				05 E1 000B9	BBC	#5, AED_L_FLAGS, 6\$	2550
	C0	A3		20 8A 000BD	BICB2	#32, AED_L_FLAGS	2551
				64 D4 000C0	CLRL	BUFFER INDEX	2552
				01 90 000C0	MOVB	#1, AED_B_COLUMN	2553
	E0	A3		A3 9A 000C0	MOVZBL	AED_B_COLUMN, -(SP)	2554
		7E	E0	31 000C0	BRW	24\$	
			0171	8F AA 000C0	BICW2	#8320, AED_L_FLAGS	2560
	C0	A3	2080				

		03	C1	A3	E9	000C6	8\$:	BLBC	AED_L_FLAGS+1, 9\$	: 2563
				00E2	31	000CA		BRW	16\$	: 2566
		63	04	B3	D0	000CD	9\$:	MOVL	@AED_L_LASTLINE, AED_L_FIRSTLINE	: 2567
		50	F0	A3	9E	000D1		MOVAB	AED_B_CINETABLE, R0	: 2568
		50		63	D1	000D5		CMPL	AED_L_FIRSTLINE, R0	: 2569
				04	12	000D8		BNEQ	10\$	: 2573
				20	88	000DA		BISB2	#32, AED_L_FLAGS	: 2576
				63	DD	000DE	10\$:	PUSHL	AED_L_FIRSTLINE	: 2577
				01	FB	000E0		CALLS	#1, AED_POSITION	: 2578
				05	E1	000E3		BBC	#5, AED_L_FLAGS, 12\$	: 2579
				64	D4	000E8		CLRL	BUFFER_INDEX	: 2581
				01	90	000EA		MOVB	#1, AED_B_COLUMN	: 2582
				8F	88	000EE		BISB2	#64, AED_C_FLAGS+1	: 2583
			40	A3	B4	000F3		CLRW	SEGMENT_SIZE	: 2584
			78	C3	B4	000F6		CLRW	AED_W_TOTALSIZE	: 2585
			0284	63	D0	000FA		MOVL	AED_L_FIRSTLINE, R0	: 2588
				A3	0E	000FD		INSQUE	AED_T_CURLINE, @4(R0)	: 2589
			70	A3	9E	00102		MOVAB	AED_T_CURLINE, R0	: 2590
				50	D0	00106		MOVL	R0, AED_L_LASTLINE	: 2591
				50	D0	0010A		MOVL	R0, AED_L_FIRSTLINE	: 2592
				01	B0	0010D		MOVW	#1, 10(R0)	: 2593
			FC	A3	D4	00111		CLRL	AED_L_CURACE	: 2594
			C1	A3	95	00114		TSTB	AED_L_FLAGS+1	: 2595
				44	18	00117		BGEQ	11\$	: 2596
			68	A3	94	00119		CLRB	AED_B_ACETYPE	: 2597
				08	8A	0011C		BICB2	#8, AED_L_FLAGS+2	: 2598
				54	DD	00120		PUSHL	R4	: 2599
				01	FB	00122		CALLS	#1, AED_SELECTFIELD	: 2600
				A3	B0	00127		MOVW	AED_T_CURLINE+8, ECHO_DESC	: 2601
			78	C3	9E	0012C		MOVAB	AED_T_CURLINE+20, ECHO_DESC+4	: 2602
			0084	01	DD	00132		PUSHL	#1	: 2603
				A3	9A	00134		MOVZBL	AED_B_LINE, -(SP)	: 2604
				02	FB	00138		CALLS	#2, SCRSET_CURSOR	: 2605
				A4	9F	0013F		PUSHAB	ECHO_DESC	: 2606
			04	01	FB	00142		CALLS	#1, AED_PUTOUTPUT	: 2607
				A3	3C	00147		MOVZWL	SEGMENT_SIZE, -(SP)	: 2608
			78	6E	D6	0014B		INCL	(SP)	: 2609
				A3	9A	0014D		MOVZBL	AED_B_LINE, -(SP)	: 2610
				02	FB	00151		CALLS	#2, SCRERASE_LINE	: 2611
				01	81	00158		ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	: 2612
				00CD	31	0015D	11\$:	BRW	23\$	: 2613
				63	DD	00160	12\$:	PUSHL	AED_L_FIRSTLINE	: 2614
				01	FB	00162		CALLS	#1, AED_COPSEGMENT	: 2615
				63	D0	00165		MOVL	AED_L_FIRSTLINE, R0	: 2616
				A3	0E	00168		INSQUE	AED_T_CURLINE, @4(R0)	: 2617
				A3	9E	0016D		MOVAB	AED_T_CURLINE, R0	: 2618
				50	D0	00171		MOVL	R0, AED_L_LASTLINE	: 2619
				50	D0	00175		MOVL	R0, AED_L_FIRSTLINE	: 2620
				63	D0	00178		MOVL	AED_L_FIRSTLINE, R2	: 2621
				A2	B0	0017B		MOVW	8(R2), AED_W_TOTALSIZE	: 2622
				A3	D0	00181		MOVL	AED_L_LASTLINE, R1	: 2623
				01	E0	00185	13\$:	BBS	#1, 10(R1), 15\$	: 2624
				A3	9E	0018A		MOVAB	AED_T_CURLINE, R0	: 2625
				51	D1	0018E		CMPL	R1, R0	: 2626
				04	12	00191		BNEQ	14\$	: 2627
				61	D0	00193		MOVL	(R1), AED_L_LASTLINE	: 2628
				B3	D0	00197	14\$:	MOVL	@AED_L_LASTLINE, AED_L_LASTLINE	: 2629

	51	04	A3	D0	0019C	MOVL	AED_L_LASTLINE, R1	: 2612
0284	C3	08	A1	A0	001A0	ADDW2	8(RT), AED_W_TOTALSIZE	: 2613
			DD	11	001A6	BRB	13\$	: 2606
FC	A3	0C	A2	D0	001A8	15\$: MOVL	12(R2), AED_L_CURACE	: 2614
			78	11	001AD	BRB	22\$	: 2615
	50		63	D0	001AF	16\$: MOVL	AED_L_FIRSTLINE, R0	: 2621
	50	04	A0	D0	001B2	MOVL	4(R0), R0	: 2622
	63		50	D0	001B6	MOVL	R0, AED_L_FIRSTLINE	: 2623
04	A3		50	D0	001B9	MOVL	R0, AED_L_LASTLINE	: 2624
	50		63	D0	001BD	MOVL	AED_L_FIRSTLINE, R0	: 2625
0284	C3	08	A0	B0	001C0	MOVW	8(R0), AED_W_TOTALSIZE	: 2626
	50		63	D0	001C6	MOVL	AED_L_FIRSTLINE, R0	: 2627
	1A	0A	A0	E8	001C9	17\$: BLBS	10(R0), 19\$	: 2628
	50	08	A3	D1	001CD	CMPL	AED_L_BEGINLINE, R0	: 2629
			05	12	001D1	BNEQ	18\$	: 2630
08	A3	04	A0	D0	001D3	MOVL	4(R0), AED_L_BEGINLINE	: 2631
	63	04	A0	D0	001D8	18\$: MOVL	4(R0), AED_L_FIRSTLINE	: 2632
	50		63	D0	001DC	MOVL	AED_L_FIRSTLINE, R0	: 2633
0284	C3	08	A0	A0	001DF	ADDW2	8(R0), AED_W_TOTALSIZE	: 2634
			E2	11	001E5	BRB	17\$	: 2635
	65		63	DD	001E7	19\$: PUSH	AED_L_FIRSTLINE	: 2636
			01	FB	001E9	CALLS	#1, AED_POSITION	: 2637
			63	DD	001EC	PUSH	AED_L_FIRSTLINE	: 2638
	66		01	FB	001EE	CALLS	#1, AED_COPSEGMENT	: 2639
	50		63	D0	001F1	MOVL	AED_L_FIRSTLINE, R0	: 2640
04	B0	70	A3	0E	001F4	INSQUE	AED_T_CURLINE, @4(R0)	: 2641
	63	08	A3	D1	001F9	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	: 2642
			05	12	001FD	BNEQ	20\$	: 2643
08	A3	70	A3	9E	001FF	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	: 2644
	63	04	A3	D1	00204	20\$: CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	: 2645
			05	12	00208	BNEQ	21\$	: 2646
04	A3	70	A3	9E	0020A	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	: 2647
	63	70	A3	9E	0020F	21\$: MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	: 2648
	50		63	D0	00213	MOVL	AED_L_FIRSTLINE, R0	: 2649
0284	C3	08	A0	B0	00216	MOVW	8(R0), AED_W_TOTALSIZE	: 2650
FC	A3	0C	A0	D0	0021C	MOVL	12(R0), AED_L_CURACE	: 2651
CO	A3	4020	8F	AA	00221	BICW2	#16416, AED_L_FLAGS	: 2652
			64	D4	0C227	22\$: CLRL	BUFFER_INDEX	: 2653
7E	E0		01	90	00229	MOVB	#1, AED_B_COLUMN	: 2654
	64		01	C1	0022D	23\$: ADDL3	#1, BUFFER_INDEX, -(SP)	: 2655
	7E	E4	A3	9A	00231	24\$: MOVZBL	AED_B_LINE, -(SP)	: 2656
0000G	CF		02	FB	00235	CALLS	#2, AED_SET_CURSOR	: 2657
C1	A3	2008	8F	AA	0023A	BICW2	#8200, AED_L_FLAGS+1	: 2658
		28	A4	94	00240	CLRB	TERM_CHAR	: 2659
	50		01	D0	00243	MOVL	#1, R0	: 2660
			04	00246	RET			: 2661

; Routine Size: 583 bytes, Routine Base: \$CODE\$ + 16F0


```
ACT_MOVE_BOL - move to beginning of line

: 2216 2652 1 %SBTTL 'ACT MOVE BOL - move to beginning of line'
: 2217 2653 1 ROUTINE ACT_MOVE_BOL =
: 2218 2654 1
: 2219 2655 1 !++
: 2220 2656 1
: 2221 2657 1 FUNCTIONAL DESCRIPTION:
: 2222 2658 1
: 2223 2659 1 This routine positions the cursor to the beginning of the current
: 2224 2660 1 line segment.
: 2225 2661 1
: 2226 2662 1 CALLING SEQUENCE:
: 2227 2663 1 ACT_MOVE_BOL ( )
: 2228 2664 1
: 2229 2665 1 INPUT PARAMETERS:
: 2230 2666 1 none
: 2231 2667 1
: 2232 2668 1 IMPLICIT INPUTS:
: 2233 2669 1 OWN storage
: 2234 2670 1
: 2235 2671 1 OUTPUT PARAMETERS:
: 2236 2672 1 none
: 2237 2673 1
: 2238 2674 1 IMPLICIT OUTPUTS:
: 2239 2675 1 none
: 2240 2676 1
: 2241 2677 1 ROUTINE VALUE:
: 2242 2678 1 1 if successful
: 2243 2679 1 error status otherwise
: 2244 2680 1
: 2245 2681 1 SIDE EFFECTS:
: 2246 2682 1 The line segment table is updated as necessary, ACE line pointers
: 2247 2683 1 are updated, and the object's ACL is updated as necessary.
: 2248 2684 1
: 2249 2685 1 !--
: 2250 2686 1
: 2251 2687 2 BEGIN
: 2252 2688 2
: 2253 2689 2 BUFFER_INDEX = 0;
: 2254 2690 2 AED_W_ITEMEND = 0;
: 2255 2691 2 AED_B_COLUMN = 1;
: 2256 2692 2 AED_SET_CURSOR (.AED_B_LINE, 1);
: 2257 2693 2 AED_L_FLAGS[AED_V_GO[DRY]] = 0;
: 2258 2694 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2259 2695 2 TERM_CHAR = 0;
: 2260 2696 2 RETURN 1;
: 2261 2697 2
: 2262 2698 1 END;

! End of routine ACT_MOVE_BOL
```

```
0000 00000 ACT_MOVE_BOL:
0000' CF D4 00002 .WORD Save nothing
0000' CF B4 00006 CLRL BUFFER_INDEX
0000' CF 01 90 0000A CLRW AED_W_ITEMEND
MOV B #1, AED_B_COLUMN
```

```
: 2653
: 2689
: 2690
: 2691
```


ACT_MOVE_BOL - move to beginning of line

D 16
15-Sep-1984 23:47:14
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0000G	7E	0000'	01	DD	0000F
0000'	CF		CF	9A	00011
	CF	2008	02	FB	00016
		0000'	8F	AA	0001B
			CF	94	00022
50			01	D0	00026
				04	00029

```

PUSH      #1
MOVZBL    AED_B_LINE, -(SP)
CALLS     #2, AED_SET_CURSOR
BICW2     #B200, AED_C_FLAGS+1
CLRB      TERM_CHAR
MOVL      #1, R0
RET

```

: 2692
:
:
:
:
: 2694
: 2695
: 2696
: 2698

; Routine Size: 42 bytes, Routine Base: \$CODES + 1937

ACT_MOVE_EOL - move to end of line

```
: 2264      2699 1 %SBTTL 'ACT_MOVE_EOL - move to end of line'
: 2265      2700 1 ROUTINE ACT_MOVE_EOL =
: 2266      2701 1
: 2267      2702 1 ++
: 2268      2703 1
: 2269      2704 1 FUNCTIONAL DESCRIPTION:
: 2270      2705 1
: 2271      2706 1     This routine positions the cursor to the end of the current line
: 2272      2707 1     segment.
: 2273      2708 1
: 2274      2709 1 CALLING SEQUENCE:
: 2275      2710 1     ACT_MOVE_EOL ( )
: 2276      2711 1
: 2277      2712 1 INPUT PARAMETERS:
: 2278      2713 1     none
: 2279      2714 1
: 2280      2715 1 IMPLICIT INPUTS:
: 2281      2716 1     OWN storage
: 2282      2717 1
: 2283      2718 1 OUTPUT PARAMETERS:
: 2284      2719 1     none
: 2285      2720 1
: 2286      2721 1 IMPLICIT OUTPUTS:
: 2287      2722 1     none
: 2288      2723 1
: 2289      2724 1 ROUTINE VALUE:
: 2290      2725 1     1 if successful
: 2291      2726 1     error status otherwise
: 2292      2727 1
: 2293      2728 1 SIDE EFFECTS:
: 2294      2729 1     The line segment table is updated as necessary, ACE line pointers
: 2295      2730 1     are updated, and the object's ACL is updated as necessary.
: 2296      2731 1
: 2297      2732 1 --
: 2298      2733 1
: 2299      2734 2 BEGIN
: 2300      2735 2
: 2301      2736 2 BUFFER_INDEX = .SEGMENT_SIZE;
: 2302      2737 2 AED_W_ITEMEND = .BUFFER_INDEX;
: 2303      2738 2 AED_B_COLUMN = .BUFFER_INDEX + 1;
: 2304      2739 2 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 2305      2740 2 AED_L_FLAGS[AED_V_GOLDREY] = 0;
: 2306      2741 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2307      2742 2 TERM_CHAR = 0;
: 2308      2743 2 RETURN 1;
: 2309      2744 2
: 2310      2745 1 END;
```

! End of routine ACT_MOVE_EOL

```
000C 00000 ACT_MOVE_EOL:
53 0000' CF 9E 00002 .WORD Save R2,R3
52 0000' CF 9E 00007 MOVAB BUFFER_INDEX, R3
63 0098 C2 3C 0000C MOVAB AED_B_COLUMN, R2
MOVZWL SEGMENT_SIZE, BUFFER_INDEX
```

: 2700
:
:
: 2736

AED\$MAIN
V04-000

ACT_MOVE_EOL - move to end of line

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62	0084	C2	63	B0	00011
		63	01	81	00016
		7E	62	9A	0001A
		7E	A2	9A	0001D
	0000G	CF	02	FB	00021
	E1	A2	8F	AA	00026
			A3	94	0002C
		50	01	D0	0002F
			04	00	00032

MOVW	BUFFER INDEX, AED_W_ITEMEND
ADDB3	#1, BUFFER INDEX, AED_B_COLUMN
MOVZBL	AED_B_COLUMN, -(SP)
MOVZBL	AED_B_LINE, -(SP)
CALLS	#2, AED SET CURSOR
BICW2	#8200, AED_L_FLAGS+1
CLRB	TERM CHAR
MOVL	#1, R0
RET	

: 2737
: 2738
: 2739
:
: 2741
: 2742
: 2743
: 2745

; Routine Size: 51 bytes, Routine Base: \$CODE\$ + 196;

ACT_UP - move up to previous line

```
: 2312 2746 1 %SBTTL 'ACT_UP - move up to previous line'
: 2313 2747 1 ROUTINE ACT_UP =
: 2314 2748 1
: 2315 2749 1 ++
: 2316 2750 1
: 2317 2751 1 FUNCTIONAL DESCRIPTION:
: 2318 2752 1
: 2319 2753 1 This routine moves the cursor up to the previous line segment. If
: 2320 2754 1 the current ACE has been modified but not entered, it is done before
: 2321 2755 1 moving the cursor. The cursor position in the new line segment
: 2322 2756 1 is minimized with the current cursor position and the end of the
: 2323 2757 1 line segment.
: 2324 2758 1
: 2325 2759 1 CALLING SEQUENCE:
: 2326 2760 1 ACT_UP ()
: 2327 2761 1
: 2328 2762 1 INPUT PARAMETERS:
: 2329 2763 1 none
: 2330 2764 1
: 2331 2765 1 IMPLICIT INPUTS:
: 2332 2766 1 OWN storage
: 2333 2767 1
: 2334 2768 1 OUTPUT PARAMETERS:
: 2335 2769 1 none
: 2336 2770 1
: 2337 2771 1 IMPLICIT OUTPUTS:
: 2338 2772 1 none
: 2339 2773 1
: 2340 2774 1 ROUTINE VALUE:
: 2341 2775 1 1 if successful
: 2342 2776 1 error status otherwise
: 2343 2777 1
: 2344 2778 1 SIDE EFFECTS:
: 2345 2779 1 The line segment table is updated as necessary, ACE line pointers
: 2346 2780 1 are updated, and the object's ACL is updated as necessary.
: 2347 2781 1
: 2348 2782 1 --
: 2349 2783 1
: 2350 2784 2 BEGIN
: 2351 2785 2
: 2352 2786 2 LOCAL
: 2353 2787 2 UP_LINE_SEGMENT : REF $BLOCK; ! Address of previous line
: 2354 2788 2
: 2355 2789 2 AED_L_FLAGS[AED_V_INSERTTEXT] = 0; ! No item selection
: 2356 2790 2
: 2357 2791 2 IF .AED_T_CURLINE[LINE_L_BLINK] NEQA AED_Q_LINETABLE[LINE_L_FLINK]
: 2358 2792 2 THEN
: 2359 2793 3 BEGIN
: 2360 2794 3 NEW_TEXT_LINE = AED_REPSEGMENT ();
: 2361 2795 3 IF .NEW_TEXT_LINE[LINE_V_BEGINACE]
: 2362 2796 3 THEN
: 2363 2797 4 BEGIN
: 2364 2798 4 IF .AED_L_FLAGS[AED_V_MODIFIED]
: 2365 2799 4 OR .AED_L_FLAGS[AED_V_INSERT]
: 2366 2800 4 OR .AED_L_FLAGS[AED_V_INSERTTEXT]
: 2367 2801 4 THEN
: 2368 2802 5 BEGIN
```



```
: 2369      2803 5      FINISH ACE ();
: 2370      2804 5      IF .AED_L_FLAGS[AED_V_PROMPT]
: 2371      2805 5      AND .AED_C_FLAGS[AED_V_FIRSTCHAR]
: 2372      2806 5      THEN
: 2373      2807 6          BEGIN
: 2374      2808 6              NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
: 2375      2809 6              AED_W_TOTALSIZE = 0;
: 2376      2810 5          END;
: 2377      2811 5      AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
: 2378      2812 5      IF .AED_W_TOTALSIZE EQL 0
: 2379      2813 5      THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
: 2380      2814 5      AED_COMPRESS ();
: 2381      2815 5      AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
: 2382      2816 5      IF NOT .AED_L_STATUS
: 2383      2817 5      THEN
: 2384      2818 6          BEGIN
: 2385      2819 6              AED_L_FLAGS[AED_V_ACERROR] = 1;
: 2386      2820 6              AED_POSITION (.AED_L_FIRSTLINE);
: 2387      2821 6              AED_COPSEGMENT (.AED_L_FIRSTLINE);
: 2388      2822 6              INSQUE (AED_T_CURLINE[LINE_L_FLINK],
: 2389      2823 6                  .AED_C_FIRSTLINE[LINE_L_BLINK]);
: 2390      2824 6              IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
: 2391      2825 6              THEN AED_C_LASTLINE = AED_T_CURLINE;
: 2392      2826 6              IF .AED_C_BEGINLINE EQL .AED_L_FIRSTLINE
: 2393      2827 6              THEN AED_C_BEGINLINE = AED_T_CURLINE;
: 2394      2828 6              AED_L_FIRSTLINE = AED_T_CURLINE;
: 2395      2829 6              IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
: 2396      2830 6              AND .AED_C_FLAGS[AED_V_ENDACL]
: 2397      2831 6              THEN AED_L_FLAGS[AED_V_ENDACL] = 0;
: 2398      2832 6              BUFFER_INDEX = 0;
: 2399      2833 6              AED_B_COLUMN = 1;
: 2400      2834 6              AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 2401      2835 6              AED_L_FLAGS[AED_V_GODKEY] = 0;
: 2402      2836 6              AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2403      2837 6              TERM_CHAR = 0;
: 2404      2838 6              RETURN 1;
: 2405      2839 5          END;
: 2406      2840 5      AED_L_FLAGS[AED_V_MODIFIED] = AED_L_FLAGS[AED_V_INSERT] = 0;
: 2407      2841 4      END;
: 2408      2842 3      END;
: 2409      2843 3      UP_LINE_SEGMENT = .NEW_TEXT_LINE[LINE_L_BLINK];
: 2410      2844 3      AED_POSITION (.UP_LINE_SEGMENT);
: 2411      2845 3      AED_COPSEGMENT (.UP_LINE_SEGMENT);
: 2412      2846 3      INSQUE (AED_T_CURLINE[LINE_L_FLINK], .UP_LINE_SEGMENT[LINE_L_BLINK]);
: 2413      2847 3      IF .AED_L_BEGINLINE EQL .UP_LINE_SEGMENT
: 2414      2848 3      THEN AED_C_BEGINLINE = AED_T_CURLINE[LINE_L_FLINK];
: 2415      2849 3      IF .AED_C_FIRSTLINE EQL .UP_LINE_SEGMENT
: 2416      2850 3      THEN AED_C_FIRSTLINE = AED_T_CURLINE[LINE_L_FLINK];
: 2417      2851 3      IF .AED_T_CURLINE[LINE_V_ENDACE]
: 2418      2852 3      THEN
: 2419      2853 4          BEGIN
: 2420      2854 4              AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
: 2421      2855 4              AED_W_TOTALSIZE = .AED_C_LASTLINE[LINE_W_SIZE];
: 2422      2856 4              UNTIL .AED_L_FIRSTLINE[LINE_V_BEGINACE]
: 2423      2857 4              DO
: 2424      2858 5                  BEGIN
: 2425      2859 5                      AED_L_FIRSTLINE = .AED_L_FIRSTLINE[LINE_L_BLINK];
```


ACT_UP - move up to previous line

```
: 2426      2860 5      AED_W_TOTALLSIZE = .AED_W_TOTALLSIZE + .AED_L_FIRSTLINE[LINE_W_SIZE];
: 2427      2861 4      END;
: 2428      2862 4      AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BINACE];
: 2429      2863 3      END;
: 2430      2864 3      BUFFER_INDEX = MIN (.SEGMENT_SIZE, .AED_B_COLUMN - 1);
: 2431      2865 3      END
: 2432      2866 2      ELSE AED_B_LINE = 1;
: 2433      2867 2      AED_SET_CURSOR (.AED_B_LINE, .BUFFER_INDEX + 1);
: 2434      2868 2      AED_L_FLAGS[AED_V_ENDACL] = 0;
: 2435      2869 2      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 2436      2870 2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2437      2871 2      TERM_CHAR = 0;
: 2438      2872 2      RETURN 1;
: 2439      2873 2
: 2440      2874 1 END;
```

! End of routine ACT_UP

			001C 00000	ACT_UP:	.WORD	Save R2,R3,R4	2747
	54	0000'	CF 9E 00002		MOVAB	NEW_TEXT_LINE, R4	
	53	0000'	CF 9E 00007		MOVAB	AED_L_FIRSTLINE, R3	
	C1 A3	40	8F 8A 0000C		BICB2	#64, AED_L_FLAGS+1	2789
	50	F0	A3 9E 00011		MOVAB	AED_Q_LINETABLE, R0	2791
	50	74	A3 D1 00015		CMPL	AED_T_CURLINE+4, R0	
			03 12 00019		BNEQ	1\$	
		013C	31 0001B		BRW	18\$	
	0000G	CF	00 FB 0001E	1\$:	CALLS	#0, AED_REPSEGMENT	2794
	64		50 D0 00023		MOVL	R0, NEW_TEXT_LINE	
	03	0A	A0 E8 00026		BLBS	10(R0), -3\$	2795
		00AF	31 0002A	2\$:	BRW	11\$	
		C0	A3 95 0002D	3\$:	TSTB	AED_L_FLAGS	2798
			0A 19 00030		BLSS	4\$	
05	C1 A3		05 E0 00032		BBS	#5, AED_L_FLAGS+1, 4\$	2799
EE	C1 A3		06 E1 00037		BBC	#6, AED_L_FLAGS+1, 2\$	2800
	0000V	CF	00 FB 0003C	4\$:	CALLS	#0, FINISH_ACE	2803
		C1	A3 95 00041		TSTB	AED_L_FLAGS+1	2804
			10 18 00044		BGEQ	5\$	
0B	C1 A3		04 E1 00046		BBC	#4, AED_L_FLAGS+1, 5\$	2805
	50		64 D0 0004B		MOVL	NEW_TEXT_LINE, R0	2808
	0A A0		04 88 0004E		BISB2	#4, -10(R0)	
		0284	C3 B4 00052		CLRW	AED_W_TOTALLSIZE	2809
	C1 A3	40	8F 8A 00056	5\$:	BICB2	#64, AED_L_FLAGS+1	2811
		0284	C3 B5 0005B		TSTW	AED_W_TOTALLSIZE	2812
			03 12 0005F		BNEQ	6\$	
	74		94 D0 00061		MOVL	@NEW_TEXT_LINE, NEW_TEXT_LINE	2813
	0000G	CF	00 FB 00064	6\$:	CALLS	#0, AED_COMPRESS	2814
	7E	0284	C3 3C 00069		MOVZWL	AED_W_TOTALLSIZE, -(SP)	2815
	0000G	CF	01 FB 0006E		CALLS	#1, AED_UPDATEACL	
	4C		50 D0 00073		MOVL	R0, AED_L_STATUS	
	5B	4C	A3 E8 00077		BLBS	AED_L_STATUS, 10\$	2816
	C0 A3	40	8F 88 0007B		BISB2	#64, AED_L_FLAGS	2819
			63 DD 00080		PUSHL	AED_L_FIRSTLINE	2820
	0000G	CF	01 FB 00082		CALLS	#1, AED_POSITION	
			63 DD 00087		PUSHL	AED_L_FIRSTLINE	2821
	0000G	CF	01 FB 00089		CALLS	#1, AED_COPSEGMENT	

	50		63	D0	0008E	MOVL	AED_L_FIRSTLINE, R0	2823
04	B0	70	A3	0E	00091	INSQUE	AED_T_CURLINE, @4(R0)	
	63	04	A3	D1	00096	CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	2824
			05	12	0009A	BNEQ	7\$	
04	A3	70	A3	9E	0009C	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	2825
	63	08	A3	D1	000A1	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	2826
			05	12	000A5	BNEQ	8\$	
08	A3	70	A3	9E	000A7	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	2827
	63	70	A3	9E	000AC	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	2828
04	A3		63	D1	000B0	CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE	2829
			09	13	000B4	BEQL	9\$	
04	C0		05	E1	000B6	BBC	#5, AED_L_FLAGS, 9\$	2830
	C0		20	8A	000BB	BICB2	#32, AED_C_FLAGS	2831
		E8	A4	D4	000BF	CLRL	BUFFER_INDEX	2832
	E0		01	90	000C2	MOVB	#1, AED_B_COLUMN	2833
	7E	E0	A3	9A	000C6	MOVZBL	AED_B_COLUMN, -(SP)	2834
	7E	E4	A3	9A	000CA	MOVZBL	AED_B_LINE, -(SP)	
0000G	CF		02	FB	000CE	CALLS	#2, AED_SET_CURSOR	
			009A	31	000D3	BRW	20\$	2835
	C0	2080	8F	AA	000D6	BICW2	#8320, AED_L_FLAGS	2840
	50		64	D0	000DC	MOVL	NEW TEXT LINE, R0	2843
	52	04	A0	D0	000DF	MOVL	4(R0), UP LINE SEGMENT	
			52	DD	000E3	PUSHL	UP LINE SEGMENT	2844
0000G	CF		01	FB	000E5	CALLS	#1, AED_POSITION	
			52	DD	000EA	PUSHL	UP LINE SEGMENT	2845
0000G	CF		01	FB	000EC	CALLS	#1, AED_COPSEGMENT	
04	B2	70	A3	0E	000F1	INSQUE	AED_T_CURLINE, @4(UP LINE SEGMENT)	2846
	52	08	A3	D1	000F6	CMPL	AED_L_BEGINLINE, UP LINE SEGMENT	2847
			05	12	000FA	BNEQ	12\$	
08	A3	70	A3	9E	000FC	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	2848
	52		63	D1	00101	CMPL	AED_L_FIRSTLINE, UP LINE SEGMENT	2849
			04	12	00104	BNEQ	13\$	
33	63	70	A3	9E	00106	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	2850
	7A		01	E1	0010A	BBC	#1, AED_T_CURLINE+TO, 16\$	2851
	50	70	A3	9E	0010F	MOVAB	AED_T_CURLINE, R0	2854
04	A3		50	D0	00113	MOVL	R0, AED_L_LASTLINE	
	63		50	D0	00117	MOVL	R0, AED_L_FIRSTLINE	
	50	04	A3	D0	0011A	MOVL	AED_L_LASTLINE, R0	2855
0284	C3	08	A0	B0	0011E	MOVW	8(R0), AED_W_TOTALSIZE	
	50		63	D0	00124	MOVL	AED_L_FIRSTLINE, R0	2856
	0F	0A	A0	E8	00127	BLBS	10(R0), 15\$	
	63	04	A0	D0	0012B	MOVL	4(R0), AED_L_FIRSTLINE	2859
	50		63	D0	0012F	MOVL	AED_L_FIRSTLINE, R0	2860
0284	C3	08	A0	A0	00132	ADDW2	8(R0), AED_W_TOTALSIZE	
			ED	11	00138	BRB	14\$	2856
	50		63	D0	0013A	MOVL	AED_L_FIRSTLINE, R0	2862
FC	A3	0C	A0	D0	0013D	MOVL	12(R0), AED_L_CURACE	
	51	E0	A3	9A	00142	MOVZBL	AED_B_COLUMN, R1	2864
			51	D7	00146	DECL	R1	
	50	78	A3	3C	00148	MOVZWL	SEGMENT_SIZE, R0	
	51		50	D1	0014C	CMPL	R0, R1	
			03	15	0014F	BLEQ	17\$	
	50		51	D0	00151	MOVL	R1, R0	
E8	A4		50	D0	00154	MOVL	R0, BUFFER_INDEX	
			04	11	00158	BRB	19\$	2791
	E4		01	90	0015A	MOVB	#1, AED_B_LINE	2866
7E	E8		01	C1	0015E	ADDL3	#1, BUFFER_INDEX, -(SP)	2867

AED\$MAIN
V04-000

ACT_UP - move up to previous line

K 16
15-Sep-1984 23:47:14
14-Sep-1984 11:52:29

VAX-11 Bliss-32 V4.0-742
[ACLEDT.SRC]AEDMAIN.B32;1

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0000G	7E	E4	A3	9A	00163	MOVZBL	AED_B LINE, -(SP)	:
C0	CF		02	FB	00167	CALLS	#2, AED SET CURSOR	:
C1	A3		20	8A	0016C	BICB2	#32, AED_L_FLAGS	: 2868
	A3	2008	8F	AA	00170	BICW2	#8200, AED_L_FLAGS+1	: 2870
		10	A4	94	00176	CLRB	TERM CHAR	: 2871
	50		01	D0	00179	MOVL	#1, R0	: 2872
			04	0017C		RET		: 2874

; Routine Size: 381 bytes, Routine Base: \$CODE\$ + 1994

ACT_DOWN - move down to next line

```
: 2442 2875 1 XSBTTL 'ACT_DOWN - move down to next line'
: 2443 2876 1 ROUTINE ACT_DOWN =
: 2444 2877 1
: 2445 2878 1 ++
: 2446 2879 1
: 2447 2880 1 FUNCTIONAL DESCRIPTION:
: 2448 2881 1
: 2449 2882 1 This routine moves the cursor down to the next line segment. The
: 2450 2883 1 cursor position in the new line segment is minimized with the
: 2451 2884 1 current cursor position and the end of the line segment.
: 2452 2885 1
: 2453 2886 1 CALLING SEQUENCE:
: 2454 2887 1 ACT_DOWN ()
: 2455 2888 1
: 2456 2889 1 INPUT PARAMETERS:
: 2457 2890 1 none
: 2458 2891 1
: 2459 2892 1 IMPLICIT INPUTS:
: 2460 2893 1 OWN storage
: 2461 2894 1
: 2462 2895 1 OUTPUT PARAMETERS:
: 2463 2896 1 none
: 2464 2897 1
: 2465 2898 1 IMPLICIT OUTPUTS:
: 2466 2899 1 none
: 2467 2900 1
: 2468 2901 1 ROUTINE VALUE:
: 2469 2902 1 1 if successful
: 2470 2903 1 error status otherwise
: 2471 2904 1
: 2472 2905 1 SIDE EFFECTS:
: 2473 2906 1 The line segment table is updated as necessary, ACE line pointers
: 2474 2907 1 are updated, and the object's ACL is updated as necessary.
: 2475 2908 1
: 2476 2909 1 --
: 2477 2910 1
: 2478 2911 2 BEGIN
: 2479 2912 2
: 2480 2913 2 LOCAL
: 2481 2914 2 DOWN_LINE_SEGMENT : REF $BBLOCK; ! Address of next line segment
: 2482 2915 2
: 2483 2916 2 IF NOT .AED_L_FLAGS[AED_V_ENDACL]
: 2484 2917 2 OR .AED_W_TOTALSIZE GTR 0 OR .SEGMENT_SIZE GTR 0
: 2485 2918 2 THEN
: 2486 2919 3 BEGIN
: 2487 2920 3 NEW_TEXT_LINE = AED_REPSEGMENT ();
: 2488 2921 3 IF .AED_C_LASTLINE EQ LA NEW_TEXT_LINE[LINE_L_FLINK]
: 2489 2922 3 THEN
: 2490 2923 4 BEGIN
: 2491 2924 4 IF .AED_L_FLAGS[AED_V_MODIFIED]
: 2492 2925 4 OR .AED_L_FLAGS[AED_V_INSERT]
: 2493 2926 4 OR .AED_L_FLAGS[AED_V_INSERTTEXT]
: 2494 2927 4 THEN
: 2495 2928 5 BEGIN
: 2496 2929 5 FINISH ACE ();
: 2497 2930 5 IF .AED_L_FLAGS[AED_V_PROMPT]
: 2498 2931 5 AND .AED_C_FLAGS[AED_V_FIRSTCHAR]
```



```
: 2499      2932  5      THEN
: 2500      2933  6      BEGIN
: 2501      2934  6      NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
: 2502      2935  6      AED_W_TOTALSIZE = 0;
: 2503      2936  5      END;
: 2504      2937  5      AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
: 2505      2938  5      IF .AED_W_TOTALSIZE EQL 0
: 2506      2939  5      THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_BLINK];
: 2507      2940  5      AED_COMPRESS ();
: 2508      2941  5      AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
: 2509      2942  5      IF NOT .AED_L_STATUS
: 2510      2943  5      THEN
: 2511      2944  6      BEGIN
: 2512      2945  6      AED_L_FLAGS[AED_V_ACERROR] = 1;
: 2513      2946  6      AED_POSITION (.AED_L_FIRSTLINE);
: 2514      2947  6      AED_COPSEGMENT (.AED_L_FIRSTLINE);
: 2515      2948  6      INSQUE (AED_T_CURLINE[LINE_L_FLINK],
: 2516      2949  6      .AED_C_FIRSTLINE[LINE_L_BLINK]);
: 2517      2950  6      IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
: 2518      2951  6      THEN AED_C_LASTLINE = AED_T_CURLINE;
: 2519      2952  6      IF .AED_C_BEGINLINE EQL .AED_L_FIRSTLINE
: 2520      2953  6      THEN AED_C_BEGINLINE = AED_T_CURLINE;
: 2521      2954  6      AED_L_FIRSTLINE = AED_T_CURLINE;
: 2522      2955  6      IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
: 2523      2956  6      AND .AED_C_FLAGS[AED_V_ENDACL]
: 2524      2957  6      THEN AED_L_FLAGS[AED_V_ENDACL] = 0;
: 2525      2958  6      BUFFER_INDEX = 0;
: 2526      2959  6      AED_B_COLUMN = 1;
: 2527      2960  6      AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 2528      2961  6      AED_L_FLAGS[AED_V_GOLDREY] = 0;
: 2529      2962  6      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2530      2963  6      TERM_CHAR = 0;
: 2531      2964  6      RETURN 1;
: 2532      2965  5      END;
: 2533      2966  5      AED_L_FLAGS[AED_V_MODIFIED] = AED_L_FLAGS[AED_V_INSERT] = 0;
: 2534      2967  4      END;
: 2535      2968  3      END;
: 2536      2969  3      DOWN_LINE_SEGMENT = .NEW_TEXT_LINE[LINE_L_FLINK];
: 2537      2970  3      AED_POSITION (.DOWN_LINE_SEGMENT);
: 2538      2971  3      AED_COPSEGMENT (.DOWN_LINE_SEGMENT);
: 2539      2972  3      INSQUE (AED_T_CURLINE[LINE_L_FLINK], .DOWN_LINE_SEGMENT[LINE_L_BLINK]);
: 2540      2973  3      IF .AED_L_LASTLINE EQL .DOWN_LINE_SEGMENT
: 2541      2974  3      THEN AED_C_LASTLINE = AED_T_CURLINE[LINE_L_FLINK];
: 2542      2975  3      IF .AED_C_BEGINLINE EQL .DOWN_LINE_SEGMENT
: 2543      2976  3      THEN AED_C_BEGINLINE = AED_T_CURLINE[LINE_L_FLINK];
: 2544      2977  3      IF .DOWN_LINE_SEGMENT NEQ .AED_Q_LINETABLE[LINE_L_FLINK]
: 2545      2978  3      THEN
: 2546      2979  4      BEGIN
: 2547      2980  4      IF .AED_T_CURLINE[LINE_V_BEGINACE]
: 2548      2981  4      THEN
: 2549      2982  5      BEGIN
: 2550      2983  5      AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
: 2551      2984  5      AED_W_TOTALSIZE = .AED_C_FIRSTLINE[LINE_Q_SIZE];
: 2552      2985  5      UNTIL .AED_L_LASTLINE[LINE_V_ENDACE]
: 2553      2986  5      DO
: 2554      2987  6      BEGIN
: 2555      2988  6      IF .AED_L_LASTLINE EQLA AED_T_CURLINE
```


ACT_DOWN - move down to next line

```
: 2556      2989 6      THEN AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
: 2557      2990 6      AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
: 2558      2991 6      AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_LASTLINE[LINE_W_SIZE];
: 2559      2992 5      END;
: 2560      2993 5      AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BINACE];
: 2561      2994 4      END;
: 2562      2995 4      BUFFER_INDEX = MIN (.SEGMENT_SIZE, .AED_B_COLUMN - 1);
: 2563      2996 4      AED_SET_CURSOR (.AED_B_LINE, .BUFFER_INDEX + 1);
: 2564      2997 4      END
: 2565      2998 3      ELSE
: 2566      2999 4      BEGIN
: 2567      3000 4      AED_L_FLAGS[AED_V_ENDACL] = 1;
: 2568      3001 4      AED_L_FLAGS[AED_V_INSERTTEXT] = 1;
: 2569      3002 4      AED_W_TOTALSIZE = .SEGMENT_SIZE = 0;
: 2570      3003 4      BUFFER_INDEX = 0;
: 2571      3004 4      AED_B_COLUMN = 1;
: 2572      3005 4      AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
: 2573      3006 4      AED_L_FIRSTLINE[LINE_W_FLAGS] = LINE_M_BEGINACE;
: 2574      3007 4      AED_L_CURACE = 0;
: 2575      3008 4      IF .AED_L_FLAGS[AED_V_PROMPT]
: 2576      3009 4      THEN
: 2577      3010 5      BEGIN
: 2578      3011 5      AED_B_ACETYPE = 0;
: 2579      3012 5      AED_L_FLAGS[AED_V_NOITEMSEL] = 0;
: 2580      3013 5      AED_SELECTFIELD (.BUFFER_INDEX);
: 2581      3014 5      ECHO_DESC[DSC$W_LENGTH] = .AED_T_CURLINE[LINE_W_SIZE];
: 2582      3015 5      ECHO_DESC[DSC$A_POINTER] = AED_T_CURLINE[LINE_T_TEXT];
: 2583      3016 5      SCR$SET_CURSOR (.AED_B_LINE, 1);
: 2584      3017 5      AED_PUTOUTPUT (ECHO_DESC);
: 2585      3018 5      SCR$ERASE_LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
: 2586      3019 5      AED_B_COLUMN = .BUFFER_INDEX + 1;
: 2587      3020 5      AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 2588      3021 5      AED_L_FLAGS[AED_V_FIRSTCHAR] = 1;
: 2589      3022 4      END;
: 2590      3023 3      END;
: 2591      3024 2      END;
: 2592      3025 2      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 2593      3026 2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2594      3027 2      TERM_CHAR = 0;
: 2595      3028 2      RETURN 1;
: 2596      3029 2
: 2597      3030 1      END;
```

! End of routine ACT_DOWN

001C 0000 ACT_DOWN:

OF	54	0000'	CF	9E	00002	.WORD	Save R2,R3,R4	
	53	0000'	CF	9E	00007	MOVAB	NEW_TEXT_LINE, R4	
	63		05	E1	0000C	MOVAB	AED_L_FLAGS, R3	
		02C4	C3	B5	00010	BBC	#5, .AED_L_FLAGS, 1\$	
			09	12	00014	TSTW	AED_W_TOTALSIZE	
		00B8	C3	B5	00016	BNEQ	1\$	
			03	12	0001A	TSTW	SEGMENT_SIZE	
		01F4	31	0001C	BNEQ	1\$		
					BRW	21\$		

: 2876

: 2916
: 2917

ACT_DOWN - move down to next line

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	0000G	CF		00	FB	0001F	1\$:	CALLS	#0, AED_REPSEGMENT	2920
		64		50	DO	00024		MOVL	RO, NEW_TEXT_LINE	
		64	44	A3	D1	00027		CMPL	AED_L_LASTLINE, NEW_TEXT_LINE	2921
				03	13	0002B		BEQL	3\$	
				00B2	31	0002D	2\$:	BRW	11\$	
				63	95	00030	3\$:	TSTB	AED_L_FLAGS	2924
				0A	19	00032		BLSS	4\$	
05	01	A3		05	E0	00034		BBS	#5, AED_L_FLAGS+1, 4\$	2925
EF	01	A3		06	E1	00039		BBC	#6, AED_L_FLAGS+1, 2\$	2926
	0000V	CF		00	FB	0003E	4\$:	CALLS	#0, FINISH_ACE	2929
			01	A3	95	00043		TSTB	AED_L_FLAGS+1	2930
				10	18	00046		BGEQ	5\$	
0B	01	A3		04	E1	00048		BBC	#4, AED_L_FLAGS+1, 5\$	2931
		50		64	DO	0004D		MOVL	NEW_TEXT_LINE, RO	2934
	0A	A0		04	88	00050		BISB2	#4, -10(RO)	
			02C4	C3	B4	00054		CLRW	AED_W_TOTALSIZE	2935
			40	8F	8A	00058	5\$:	BICB2	#64, AED_L_FLAGS+1	2937
	01	A3	02C4	C3	B5	0005D		TSTW	AED_W_TOTALSIZE	2938
				07	12	00061		BNEQ	6\$	
		50		64	DO	00063		MOVL	NEW TEXT LINE, RO	2939
		64	04	A0	DO	00066		MOVL	4(RO), NEW TEXT LINE	
	0000G	CF		00	FB	0006A	6\$:	CALLS	#0, AED_COMPRESS	2940
		7E	02C4	C3	3C	0006F		MOVZWL	AED_W_TOTALSIZE, -(SP)	2941
	0000G	CF		01	FB	00074		CALLS	#1, AED_UPDATEACL	
	008C	C3		50	DO	00079		MOVL	RO, AED_L_STATUS	
		5A	008C	C3	E8	0007E		BLBS	AED_L_STATUS, 10\$	2942
		63	40	8F	88	00083		BISB2	#64, AED_L_FLAGS	2945
			40	A3	DD	00087		PUSHL	AED_L_FIRSTLINE	2946
	0000G	CF		01	FB	0008A		CALLS	#1, AED_POSITION	
			40	A3	DD	0008F		PUSHL	AED_L_FIRSTLINE	2947
	0000G	CF		01	FB	00092		CALLS	#1, AED_COPSEGMENT	
		50	40	A3	DO	00097		MOVL	AED_L_FIRSTLINE, RO	2949
	04	B0	00B0	C3	0E	0009B		INSQUE	AED_T_CURLINE, @4(RO)	
	40	A3	44	A3	D1	000A1		CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	2950
				06	12	000A6		BNEQ	7\$	
	44	A3	00B0	C3	9E	000A8		MOVAB	AED_T_CURLINE, AED_L_LASTLINE	2951
	40	A3	48	A3	D1	000AE	7\$:	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	2952
				06	12	000B3		BNEQ	8\$	
	48	A3	00B0	C3	9E	000B5		MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	2953
	40	A3	00B0	C3	9E	000BB	8\$:	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	2954
	44	A3	40	A3	D1	000C1		CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE	2955
				07	13	000C6		BEQL	9\$	
03		63		05	E1	000C8		BBC	#5, AED_L_FLAGS, 9\$	2956
		63		20	8A	000CC		BICB2	#32, AED_L_FLAGS	2957
			E8	A4	D4	000CF	9\$:	CLRL	BUFFER_INDEX	2958
	20	A3		01	90	000D2		MOVB	#1, AED_B_COLUMN	2959
		7E	20	A3	9A	000D6		MOVZBL	AED_B_COLUMN, -(SP)	2960
				00A3	31	000DA		BRW	19\$	
		63	20B0	8F	AA	000DD	10\$:	BICW2	#8320, AED_L_FLAGS	2966
		52	00	B4	DO	000E2	11\$:	MOVL	@NEW_TEXT_LINE, DOWN_LINE_SEGMENT	2969
				52	DD	000E6		PUSHL	DOWN_LINE_SEGMENT	2970
	0000G	CF		01	FB	000E8		CALLS	#1, AED_POSITION	
				52	DD	000ED		PUSHL	DOWN_LINE_SEGMENT	2971
	0000G	CF		01	FB	000EF		CALLS	#1, AED_COPSEGMENT	
	04	B2	00B0	C3	0E	000F4		INSQUE	AED_T_CURLINE, @4(DOWN_LINE_SEGMENT)	2972
		52	44	A3	D1	000FA		CMPL	AED_L_LASTLINE, DOWN_LINE_SEGMENT	2973
				06	12	000FE		BNEQ	12\$	

ACT_DOWN - move down to next line

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	44	A3	00B0	C3	9E	00100	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	2974
		52	48	A3	D1	00106	CMPL	AED_L_BEGINLINE, DOWN_LINE_SEGMENT	2975
				06	12	0010A	BNEQ	13\$	
	48	A3	00B0	C3	9E	0010C	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	2976
		50	30	A3	9E	00112	MOVAB	AED_Q_LINETABLE, R0	2977
		50		52	D1	00116	CMPL	DOWN_CINE_SEGMENT, R0	
				71	13	00119	BEQL	20\$	
		44	00BA	C3	E9	0011B	BLBC	AED_T_CURLINE+10, 17\$	2980
		50	00B0	C3	9E	00120	MOVAB	AED_T_CURLINE, R0	2983
	44	A3		50	D0	00125	MOVL	R0, AED_L_LASTLINE	
	40	A3		50	D0	00129	MOVL	R0, AED_L_FIRSTLINE	
		52	40	A3	D0	0012D	MOVL	AED_L_FIRSTLINE, R2	2984
	02C4	C3	08	A2	B0	00131	MOVW	8(R2), AED_W_TOTALSIZE	
		51	44	A3	D0	00137	MOVL	AED_L_LASTLINE, R1	2985
1F	0A	A1		01	E0	0013B	BBS	#1, 10(R1), 16\$	
		50	00B0	C3	9E	00140	MOVAB	AED_T_CURLINE, R0	2988
		50		51	D1	00145	CMPL	R1, R0	
				04	12	00148	BNEQ	15\$	
	44	A3		61	D0	0014A	MOVL	(R1), AED_L_LASTLINE	2989
	44	A3	44	B3	D0	0014E	MOVL	AED_L_LASTLINE, AED_L_LASTLINE	2990
		51	44	A3	D0	00153	MOVL	AED_L_LASTLINE, R1	2991
	02C4	C3	08	A1	A0	00157	ADDW2	8(R1), AED_W_TOTALSIZE	
				DC	11	0015D	BRB	14\$	2985
	3C	A3	0C	A2	D0	0015F	MOVL	12(R2), AED_L_CURACE	2993
		51	20	A3	9A	00164	MOVZBL	AED_B_COLUMN, R1	2995
				51	D7	00168	DECL	R1	
		50	00B8	C3	3C	0016A	MOVZWL	SEGMENT_SIZE, R0	
		51		50	D1	0016F	CMPL	R0, R1	
				03	15	00172	BLEQ	18\$	
		50		51	D0	00174	MOVL	R1, R0	
	E8	A4		50	D0	00177	MOVL	R0, BUFFER_INDEX	
7E	E8	A4		01	C1	0017B	ADDL3	#1, BUFFER_INDEX, -(SP)	2996
		7E	24	A3	9A	00180	MOVZBL	AED_B_LINE, -(SP)	
	0000G	CF		02	FB	00184	CALLS	#2, AED_SET_CURSOR	
				0087	31	00189	BRW	21\$	2977
		63	4020	8F	A8	0018C	BISW2	#16416, AED_L_FLAGS	3001
			00B8	C3	B4	00191	CLRW	SEGMENT_SIZE	3002
			02C4	C3	B4	00195	CLRW	AED_W_TOTALSIZE	
			E8	A4	D4	00199	CLRL	BUFFER_INDEX	3003
	20	A3		01	90	0019C	MOVB	#1, AED_B_COLUMN	3004
		50	00B0	C3	9E	001A0	MOVAB	AED_T_CURLINE, R0	3005
	44	A3		50	D0	001A5	MOVL	R0, AED_L_LASTLINE	
	40	A3		50	D0	001A9	MOVL	R0, AED_L_FIRSTLINE	
	0A	A0		01	B0	001AD	MOVW	#1, 10(R0)	3006
			3C	A3	D4	001B1	CLRL	AED_L_CURACE	3007
			01	A3	95	001B4	TSTB	AED_L_FLAGS+1	3008
				5A	18	001B7	BGEQ	21\$	
			00A8	C3	94	001B9	CLRB	AED_B_ACETYPE	3011
	02	A3		08	8A	001BD	BICB2	#8, AED_L_FLAGS+2	3012
			E8	A4	9F	001C1	PUSHAB	BUFFER_INDEX	3013
	0000G	CF		01	FB	001C4	CALLS	#1, AED_SELECTFIELD	
	EC	A4	00B8	C3	B0	001C9	MOVW	AED_T_CURLINE+8, ECHO_DESC	3014
	FO	A4	00C4	C3	9E	001CF	MOVAB	AED_T_CURLINE+20, ECHO_DESC+4	3015
				01	DD	001D5	PUSHL	#1	3016
		7E	24	A3	9A	001D7	MOVZBL	AED_B_LINE, -(SP)	
00000000G	00			02	FB	001DB	CALLS	#2, SCRSET_CURSOR	
			EC	A4	9F	001E2	PUSHAB	ECHO_DESC	3017

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ACT_DOWN - move down to next line

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0000G	CF	00B8	01	FB	001E5	CALLS	#1, AED_PUTOUTPUT	:	3018
	7E		C3	3C	001EA	MOVZWL	SEGMENT_SIZE, -(SP)	:	
			6E	D6	001EF	INCL	(SP)	:	
	7E	24	A3	9A	001F1	MOVZBL	AED_B_LINE, -(SP)	:	
20	A3	00000000G	02	FB	001F5	CALLS	#2, SCRSEASE LINE	:	3019
	E8		01	81	001FC	ADDB3	#1, BUFFER INDEX, AED_B_COLUMN	:	3020
			A3	9A	00202	MOVZBL	AED_B_COLUMN, -(SP)	:	
	7E	20	A3	9A	00206	MOVZBL	AED_B_LINE, -(SP)	:	
	7E	24	A3	9A	0020A	CALLS	#2, AED SET CURSOR	:	3021
	0000G		02	FB	0020F	BISB2	#16, AED_L_FLAGS+1	:	3026
	01	A3	10	88	0020F	BICW2	#8200, AED_L_FLAGS+1	:	3027
	01	A3	8F	AA	00213	CLRB	TERM CHAR	:	3028
		2008	A4	94	00219	MOVL	#1, R0	:	3030
		10	01	D0	0021C	RET		:	
	50		04	00	0021F			:	

; Routine Size: 544 bytes, Routine Base: \$CODE\$ + 1B11

ACT_RIGHT - move right one character

```
2599 3031 1 %SBTTL 'ACT_RIGHT - move right one character'
2600 3032 1 ROUTINE ACT_RIGHT =
2601 3033 1
2602 3034 1 ++
2603 3035 1
2604 3036 1 FUNCTIONAL DESCRIPTION:
2605 3037 1
2606 3038 1 This routine advances the cursor one character to the right. If
2607 3039 1 the end of the line segment is reached, the cursor is set to the
2608 3040 1 first character of the next line.
2609 3041 1
2610 3042 1 CALLING SEQUENCE:
2611 3043 1 ACT_RIGHT ()
2612 3044 1
2613 3045 1 INPUT PARAMETERS:
2614 3046 1 none
2615 3047 1
2616 3048 1 IMPLICIT INPUTS:
2617 3049 1 OWN storage
2618 3050 1
2619 3051 1 OUTPUT PARAMETERS:
2620 3052 1 none
2621 3053 1
2622 3054 1 IMPLICIT OUTPUTS:
2623 3055 1 none
2624 3056 1
2625 3057 1 ROUTINE VALUE:
2626 3058 1 1 if successful
2627 3059 1 error status otherwise
2628 3060 1
2629 3061 1 SIDE EFFECTS:
2630 3062 1 The line segment table is updated as necessary, ACE line pointers
2631 3063 1 are updated, and the object's ACL is updated as necessary.
2632 3064 1
2633 3065 1 --
2634 3066 1
2635 3067 2 BEGIN
2636 3068 2
2637 3069 2 IF .BUFFER_INDEX LSS .SEGMENT_SIZE
2638 3070 2 THEN
2639 3071 3 BEGIN
2640 3072 3 BUFFER_INDEX = .BUFFER_INDEX + 1;
2641 3073 3 AED_B_COLUMN = .BUFFER_INDEX + 1;
2642 3074 3 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
2643 3075 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
2644 3076 3 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
2645 3077 3 TERM_CHAR = 0;
2646 3078 3 RETURN 1;
2647 3079 2 END;
2648 3080 2
2649 3081 2 BUFFER_INDEX = 0;
2650 3082 2 AED_B_COLUMN = 1;
2651 3083 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
2652 3084 2 TERM_CHAR = KEY_C_DOWN;
2653 3085 2 RETURN 1;
2654 3086 2
2655 3087 1 END;
```

! End of routine ACT_RIGHT

				000C 00000 ACT_RIGHT:				
			53	0000'	CF 9E 00002	.WORD	Save R2,R3	: 3032
			52	0000'	CF 9E 00007	MOVAB	BUFFER_INDEX, R3	: 3033
63	0098	C2	10		00 ED 0000C	MOVAB	AED_B_COLUMN, R2	: 3069
					1D 15 00013	CMPZV	#0, #T6, SEGMENT_SIZE, BUFFER_INDEX	: 3072
					63 D6 00015	BLEQ	1\$	: 3073
			63		01 81 00017	INCL	BUFFER_INDEX	: 3074
		62	7E		62 9A 0001B	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	: 3076
			7E		A2 9A 0001E	MOVZBL	AED_B_COLUMN, -(SP)	: 3077
			CF	04	02 FB 00022	MOVZBL	AED_B_LINE, -(SP)	: 3078
	0000G		A2		8F AA 00027	CALLS	#2, AED SET CURSOR	: 3081
	E1			2008	A3 94 0002D	BICW2	#8200, AED_L_FLAGS+1	: 3082
				28	0D 11 00030	CLRB	TERM_CHAR	: 3083
					63 D4 00032	BRB	2\$	: 3084
			62		01 90 00034	CLRL	BUFFER_INDEX	: 3085
			A2		08 8A 00037	MOVB	#1, AED_B_COLUMN	: 3087
	E1		A3		1C 90 0003B	BICB2	#8, AED_L_FLAGS+1	: 3088
	28		50		01 D0 0003F	MOVB	#28, TERM_CHAR	: 3089
					04 00042	MOVL	#1, R0	: 3090
						RET		: 3091

; Routine Size: 67 bytes, Routine Base: \$CODE\$ + 1D31

ACT_LEFT - move left one character

```
: 2657      3088 1 XSBTTL 'ACT_LEFT - move left one character'
: 2658      3089 1 ROUTINE ACT_LEFT =
: 2659      3090 1
: 2660      3091 1 ++
: 2661      3092 1
: 2662      3093 1 FUNCTIONAL DESCRIPTION:
: 2663      3094 1
: 2664      3095 1     This routine advances the cursor one character to the left. If
: 2665      3096 1     the beginning of the line segment is reached, the cursor is set
: 2666      3097 1     to the last character of the previous line.
: 2667      3098 1
: 2668      3099 1 CALLING SEQUENCE:
: 2669      3100 1     ACT_LEFT ()
: 2670      3101 1
: 2671      3102 1 INPUT PARAMETERS:
: 2672      3103 1     none
: 2673      3104 1
: 2674      3105 1 IMPLICIT INPUTS:
: 2675      3106 1     OWN storage
: 2676      3107 1
: 2677      3108 1 OUTPUT PARAMETERS:
: 2678      3109 1     none
: 2679      3110 1
: 2680      3111 1 IMPLICIT OUTPUTS:
: 2681      3112 1     none
: 2682      3113 1
: 2683      3114 1 ROUTINE VALUE:
: 2684      3115 1     1 if successful
: 2685      3116 1     error status otherwise
: 2686      3117 1
: 2687      3118 1 SIDE EFFECTS:
: 2688      3119 1     The line segment table is updated as necessary, ACE line pointers
: 2689      3120 1     are updated, and the object's ACL is updated as necessary.
: 2690      3121 1
: 2691      3122 1 --
: 2692      3123 1
: 2693      3124 2 BEGIN
: 2694      3125 2
: 2695      3126 2 IF .BUFFER_INDEX GTR 0
: 2696      3127 2 THEN
: 2697      3128 2     BEGIN
: 2698      3129 2         BUFFER_INDEX = .BUFFER_INDEX - 1;
: 2699      3130 2         AED_B_COLUMN = .BUFFER_INDEX + 1;
: 2700      3131 2         AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 2701      3132 2         AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 2702      3133 2         AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2703      3134 2         TERM_CHAR = 0;
: 2704      3135 2         RETURN 1;
: 2705      3136 2     END;
: 2706      3137 2
: 2707      3138 2 AED_B_COLUMN = .SBBLOCK [.AED_T_CURLINE[LINE_L_BLINK], LINE_W_SIZE] + 1;
: 2708      3139 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 2709      3140 2 TERM_CHAR = KEY_C_UP;
: 2710      3141 2 RETURN 1;
: 2711      3142 2
: 2712      3143 1 END;

! End of routine ACT_LEFT
```


				000C 00000 ACT_LEFT:					
		53	0000'	CF	9E	00002	.WORD	Save R2,R3	3089
		52	0000'	CF	9E	00007	MOVAB	BUFFER_INDEX, R3	
				63	D5	0000C	MOVAB	AED_B_COLUMN, R2	
				1D	15	0000E	TSTL	BUFFER_INDEX	3126
				63	D7	00010	BLEQ	1\$	
62		63		01	81	00012	DECL	BUFFER_INDEX	3129
		7E		62	9A	00016	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	3130
		7E	04	A2	9A	00019	MOVZBL	AED_B_COLUMN, -(SP)	3131
	0000G	CF		02	FB	0001D	MOVZBL	AED_B_LINE, -(SP)	
	E1	A2	2008	8F	AA	00022	CALLS	#2, AED_SET_CURSOR	
			28	A3	94	00028	BICW2	#8200, AED_L_FLAGS+1	3133
				12	11	0002B	CLRB	TERM_CHAR	3134
		50	0094	C2	D0	0002D	BRB	2\$	3135
62	08	A0		01	81	00032	MOVL	AED_T_CURLINE+4, R0	3138
	E1	A2		08	8A	00037	ADDB3	#1, -8(R0), AED_B_COLUMN	
	28	A3		1B	90	0003B	BICB2	#8, AED_L_FLAGS+T	3139
		50		01	D0	0003F	MOVB	#27, TERM_CHAR	3140
				04	00	00042	MOVL	#1, R0	3141
							RET		3143

; Routine Size: 67 bytes, Routine Base: \$CODE\$ + 1D74

ACT_TOP - move to beginning of ACL

```
: 2714 3144 1 %SBTTL 'ACT_TOP - move to beginning of ACL'
: 2715 3145 1 ROUTINE ACT_TOP =
: 2716 3146 1
: 2717 3147 1 ++
: 2718 3148 1
: 2719 3149 1 FUNCTIONAL DESCRIPTION:
: 2720 3150 1
: 2721 3151 1 This routine moves the cursor to the first character in the first
: 2722 3152 1 line segment of the first ACE in the ACL. The display is scrolled
: 2723 3153 1 as necessary.
: 2724 3154 1
: 2725 3155 1 CALLING SEQUENCE:
: 2726 3156 1 ACT_TOP ()
: 2727 3157 1
: 2728 3158 1 INPUT PARAMETERS:
: 2729 3159 1 none
: 2730 3160 1
: 2731 3161 1 IMPLICIT INPUTS:
: 2732 3162 1 OWN storage
: 2733 3163 1
: 2734 3164 1 OUTPUT PARAMETERS:
: 2735 3165 1 none
: 2736 3166 1
: 2737 3167 1 IMPLICIT OUTPUTS:
: 2738 3168 1 none
: 2739 3169 1
: 2740 3170 1 ROUTINE VALUE:
: 2741 3171 1 1 if successful
: 2742 3172 1 error status otherwise
: 2743 3173 1
: 2744 3174 1 SIDE EFFECTS:
: 2745 3175 1 The line segment table is updated as necessary, ACE line pointers
: 2746 3176 1 are updated, and the object's ACL is updated as necessary.
: 2747 3177 1
: 2748 3178 1 --
: 2749 3179 1
: 2750 3180 2 BEGIN
: 2751 3181 2
: 2752 3182 2 AED_L_FLAGS[AED_V_INSERTTEXT] = 0; ! No item selection
: 2753 3183 2
: 2754 3184 2 NEW_TEXT_LINE = AED_REPSEGMENT ();
: 2755 3185 2 IF .AED_L_FLAGS[AED_V_MODIFIED]
: 2756 3186 2 OR .AED_L_FLAGS[AED_V_INSERT]
: 2757 3187 2 OR .AED_L_FLAGS[AED_V_INSERTTEXT]
: 2758 3188 2 THEN
: 2759 3189 2 BEGIN
: 2760 3190 2 FINISH ACE ();
: 2761 3191 2 IF .AED_L_FLAGS[AED_V_PROMPT]
: 2762 3192 2 AND .AED_L_FLAGS[AED_V_FIRSTCHAR]
: 2763 3193 2 THEN
: 2764 3194 2 BEGIN
: 2765 3195 2 NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
: 2766 3196 2 AED_W_TOTALSIZE = 0;
: 2767 3197 2 END;
: 2768 3198 2 AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
: 2769 3199 2 IF .AED_W_TOTALSIZE EQL 0
: 2770 3200 2 THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
```


ACT_TOP - move to beginning of ACL

```

: 2771 3201 3 AED_COMPRESS ();
: 2772 3202 3 AED_L STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
: 2773 3203 3 IF NOT .AED_L_STATUS
: 2774 3204 3 THEN
: 2775 3205 4 BEGIN
: 2776 3206 4 AED_L_FLAGS[AED_V_ACERROR] = 1;
: 2777 3207 4 AED_POSITION (.AED_L_FIRSTLINE);
: 2778 3208 4 AED_COPSEGMENT (.AED_L_FIRSTLINE);
: 2779 3209 4 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
: 2780 3210 4 .AED_C_FIRSTLINE[LINE_L_BLINK]);
: 2781 3211 4 IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
: 2782 3212 4 THEN AED_C_LASTLINE = AED_T_CURLINE;
: 2783 3213 4 IF .AED_C_BEGINLINE EQL .AED_L_FIRSTLINE
: 2784 3214 4 THEN AED_C_BEGINLINE = AED_T_CURLINE;
: 2785 3215 4 AED_L_FIRSTLINE = AED_T_CURLINE;
: 2786 3216 4 IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
: 2787 3217 4 AND .AED_C_FLAGS[AED_V_ENDACL]
: 2788 3218 4 THEN AED_L_FLAGS[AED_V_ENDACL] = 0;
: 2789 3219 4 BUFFER_INDEX = 0;
: 2790 3220 4 AED_B_COLUMN = 1;
: 2791 3221 4 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 2792 3222 4 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 2793 3223 4 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2794 3224 4 TERM_CHAR = 0;
: 2795 3225 4 RETURN 1;
: 2796 3226 4 END;
: 2797 3227 3 AED_L_FLAGS[AED_V_MODIFIED] = AED_L_FLAGS[AED_V_INSERT] = 0;
: 2798 3228 3 END;
: 2799 3229 2 AED_COMPRESS ();
: 2800 3230 2 AED_L_FIRSTLINE = .AED_Q_LINETABLE[LINE_L_FLINK];
: 2801 3231 2 AED_POSITION (.AED_L_FIRSTLINE);
: 2802 3232 2 AED_COPSEGMENT (.AED_L_FIRSTLINE);
: 2803 3233 2 INSQUE (AED_T_CURLINE[LINE_L_FLINK], .AED_L_FIRSTLINE[LINE_L_BLINK]);
: 2804 3234 2 AED_L_BEGINLINE = AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE[LINE_L_FLINK];
: 2805 3235 2 AED_W_TOTALSIZE = .AED_C_LASTLINE[LINE_Q_SIZE];
: 2806 3236 2 UNTIL .AED_L_LASTLINE[LINE_V_ENDACE]
: 2807 3237 2 DO
: 2808 3238 3 BEGIN
: 2809 3239 3 AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
: 2810 3240 3 AED_W_TOTALSIZE = .AED_Q_TOTALSIZE + .AED_L_LASTLINE[LINE_W_SIZE];
: 2811 3241 3 END;
: 2812 3242 2 AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BINACE];
: 2813 3243 2 BUFFER_INDEX = 0;
: 2814 3244 2 AED_B_LINE = AED_B_COLUMN = 1;
: 2815 3245 2 AED_SET_CURSOR (T, 1);
: 2816 3246 2 AED_L_FLAGS[AED_V_ENDACL] = 0;
: 2817 3247 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 2818 3248 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 2819 3249 2 TERM_CHAR = 0;
: 2820 3250 2 RETURN 1;
: 2821 3251 2
: 2822 3252 1 END;
! End of routine ACT_TOP
```


			0000	CF	9E	00002	ACT_TOP: .WORD	Save R2,R3	3145
			0000	CF	9E	00007	MOVAB	NEW_TEXT_LINE, R3	
	01	A2	40	8F	8A	0000C	MOVAB	AED_L_FLAGS, R2	3182
	0000G	CF		00	FB	00011	BICB2	#64, AED_L_FLAGS+1	3184
		63		50	D0	00016	CALLS	#0, AED_REPSEGMENT	
				62	95	00019	MOVL	R0, NEW_TEXT_LINE	3185
				0D	19	0001B	TSTB	AED_L_FLAGS	
08	01	A2		05	E0	0001D	BLSS	1\$	3186
03	01	A2		06	E0	00022	BBS	#5, AED_L_FLAGS+1, 1\$	3187
				00A8	31	00027	BBS	#6, AED_L_FLAGS+1, 1\$	
	0000V	CF		00	FB	0002A	BRW	8\$	3190
			01	A2	95	0002F	CALLS	#0, FINISH_ACE	3191
				10	18	00032	TSTB	AED_L_FLAGS+1	
0B	01	A2		04	E1	00034	BGEQ	2\$	3192
	50			63	D0	00039	BBC	#4, AED_L_FLAGS+1, 2\$	3195
	0A	A0		04	88	0003C	MOVL	NEW_TEXT_LINE, R0	
			02C4	C2	B4	00040	BISB2	#4, -10(R0)	3196
	01	A2	40	8F	8A	00044	CLRW	AED_W_TOTALSIZE	3198
			02C4	C2	B5	00049	BICB2	#64, AED_L_FLAGS+1	3199
				03	12	0004D	TSTW	AED_W_TOTALSIZE	
				93	D0	0004F	BNEQ	3\$	3200
	0000G	CF		00	FB	00052	MOVL	NEW_TEXT_LINE, NEW_TEXT_LINE	3201
		7E	02C4	C2	3C	00057	CALLS	#0, AED_COMPRESS	3202
	0000G	CF		01	FB	0005C	MOVZWL	AED_W_TOTALSIZE, -(SP)	
	008C	C2		50	D0	00061	CALLS	#1, AED_UPDATEACL	
		62	008C	C2	E8	00066	MOVL	R0, AED_L_STATUS	3203
		62	40	8F	88	0006B	BLBS	AED_L_STATUS, 7\$	3206
			40	A2	DD	0006F	BISB2	#64, AED_L_FLAGS	3207
	0000G	CF		01	FB	00072	PUSHL	AED_L_FIRSTLINE	
			40	A2	DD	00077	CALLS	#1, AED_POSITION	3208
	0000G	CF		01	FB	0007A	PUSHL	AED_L_FIRSTLINE	
		50	40	A2	D0	0007F	CALLS	#1, AED_COPSEGMENT	3210
	04	B0	00B0	C2	0E	00083	MOVL	AED_L_FIRSTLINE, R0	
	40	A2	44	A2	D1	00089	INSQUE	AED_T_CURLINE, @4(R0)	3211
				06	12	0008E	CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	
	44	A2	00B0	C2	9E	00090	BNEQ	4\$	3212
	40	A2	48	A2	D1	00096	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	3213
				06	12	0009B	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	
	48	A2	00B0	C2	9E	0009D	BNEQ	5\$	3214
	40	A2	00B0	C2	9E	000A3	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	3215
	44	A2	40	A2	D1	000A9	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	3216
				07	13	000AE	CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE	
03		62		05	E1	000B0	BEQL	6\$	3217
		62		20	8A	000B4	BBC	#5, AED_L_FLAGS, 6\$	3218
			E8	A3	D4	000B7	BICB2	#32, AED_L_FLAGS	3219
	20	A2		01	90	000BA	CLRL	BUFFER_INDEX	3220
		7E	20	A2	9A	000BE	MOVB	#1, AED_B_COLUMN	3221
		7E	24	A2	9A	000C2	MOVZBL	AED_B_COLUMN, -(SP)	
	0000G	CF		02	FB	000C6	MOVZBL	AED_B_LINE, -(SP)	
				7D	11	000CB	CALLS	#2, AED_SET_CURSOR	3222
		62	2080	8F	AA	000CD	BRB	11\$	3227
	0000G	CF		00	FB	000D2	BICW2	#8320, AED_L_FLAGS	3229
	40	A2	30	A2	D0	000D7	CALLS	#0, AED_COMPRESS	3230
			40	A2	DD	000DC	MOVL	AED_Q_LINETABLE, AED_L_FIRSTLINE	3231
	0000G	CF		01	FB	000DF	PUSHL	AED_L_FIRSTLINE	
			40	A2	DD	000E4	CALLS	#1, AED_POSITION	3232
							PUSHL	AED_L_FIRSTLINE	

ACT_TOP - move to beginning of ACL

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0000G	CF		01	FB	000E7	CALLS	#1, AED COPSEGMENT	
	50	40	A2	D0	000EC	MOVL	AED_L_FIRSTLINE, R0	3233
04	B0	00B0	C2	0E	000F0	INSQUE	AED_T_CURLINE, @4(R0)	
	50	00B0	C2	9E	000F6	MOVAB	AED_T_CURLINE, R0	3234
44	A2		50	D0	000FB	MOVL	R0, AED_L_LASTLINE	
40	A2		50	D0	000FF	MOVL	R0, AED_L_FIRSTLINE	
48	A2		50	D0	00103	MOVL	R0, AED_L_BEGINLINE	
	50	44	A2	D0	00107	MOVL	AED_L_LASTLINE, R0	3235
02C4	C2	08	A0	B0	0010B	MOVW	8(R0), AED_W_TOTALSIZE	
	50	44	A2	D0	00111	MOVL	AED_L_LASTLINE, R0	3236
10	0A		01	E0	00115	BBS	#1, 10(R0), 10\$	
	44		60	D0	0011A	MOVL	(R0), AED_L_LASTLINE	3239
	50	44	A2	D0	0011E	MOVL	AED_L_LASTLINE, R0	3240
02C4	C2	08	A0	A0	00122	ADDW2	8(R0), AED_W_TOTALSIZE	
			EB	11	00128	BRB	9\$	3236
	50	40	A2	D0	0012A	MOVL	AED_L_FIRSTLINE, R0	3242
3C	A2	0C	A0	D0	0012E	MOVL	12(R0), AED_L_CURACE	
		E8	A3	D4	00133	CLRL	BUFFER INDEX	3243
20	A2		01	90	00136	MOVB	#1, AED_B_COLUMN	3244
24	A2		01	90	0013A	MOVB	#1, AED_B_LINE	
			01	DD	0013E	PUSHL	#1	3245
			01	DD	00140	PUSHL	#1	
0000G	CF		02	FB	00142	CALLS	#2, AED SET CURSOR	
	62		20	8A	00147	BICB2	#32, AED_L_FLAGS	3246
01	A2	2008	8F	AA	0014A	BICW2	#8200, AED_L_FLAGS+1	3248
		10	A3	94	00150	CLRB	TERM_CHAR	3249
	50		01	D0	00153	MOVL	#1, R0	3250
			04	D0	00156	RET		3252

; Routine Size: 343 bytes, Routine Base: \$CODE\$ + 1DB7

ACT_BOTTOM - move to end of ACL

```
2824 3253 1 %SBTTL 'ACT_BOTTOM - move to end of ACL'
2825 3254 1 ROUTINE ACT_BOTTOM =
2826 3255 1
2827 3256 1 ++
2828 3257 1
2829 3258 1 FUNCTIONAL DESCRIPTION:
2830 3259 1
2831 3260 1     This routine positions the cursor to the first character position
2832 3261 1     in a new ACE at the end of the ACL. The screen is scrolled as
2833 3262 1     necessary.
2834 3263 1
2835 3264 1 CALLING SEQUENCE:
2836 3265 1     ACT_BOTTOM ()
2837 3266 1
2838 3267 1 INPUT PARAMETERS:
2839 3268 1     none
2840 3269 1
2841 3270 1 IMPLICIT INPUTS:
2842 3271 1     OWN storage
2843 3272 1
2844 3273 1 OUTPUT PARAMETERS:
2845 3274 1     none
2846 3275 1
2847 3276 1 IMPLICIT OUTPUTS:
2848 3277 1     none
2849 3278 1
2850 3279 1 ROUTINE VALUE:
2851 3280 1     1 if successful
2852 3281 1     error status otherwise
2853 3282 1
2854 3283 1 SIDE EFFECTS:
2855 3284 1     The line segment table is updated as necessary, ACE line pointers
2856 3285 1     are updated, and the object's ACL is updated as necessary.
2857 3286 1
2858 3287 1 --
2859 3288 1
2860 3289 2 BEGIN
2861 3290 2
2862 3291 2 NEW_TEXT_LINE = AED_REPSEGMENT ();
2863 3292 2 IF .AED_L_FLAGS[AED_V_MODIFIED]
2864 3293 2 OR .AED_L_FLAGS[AED_V_INSERT]
2865 3294 2 OR .AED_L_FLAGS[AED_V_INSERTTEXT]
2866 3295 2 THEN
2867 3296 3 BEGIN
2868 3297 3     FINISH_ACE ();
2869 3298 3     IF .AED_L_FLAGS[AED_V_PROMPT]
2870 3299 3     AND .AED_L_FLAGS[AED_V_FIRSTCHAR]
2871 3300 3     THEN
2872 3301 4 BEGIN
2873 3302 4     NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
2874 3303 4     AED_W_TOTALSIZE = 0;
2875 3304 3     END;
2876 3305 3     AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
2877 3306 3     IF .AED_W_TOTALSIZE EQL 0
2878 3307 3     THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_BLINK];
2879 3308 3     AED_COMPRESS ();
2880 3309 3     AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
```



```
2881 3310 3 IF NOT .AED_L_STATUS
2882 3311 3 THEN
2883 3312 4 BEGIN
2884 3313 4 AED_L_FLAGS[AED_V_ACERROR] = 1;
2885 3314 4 AED_POSITION (.AED_L_FIRSTLINE);
2886 3315 4 AED_COSEMENT (.AED_L_FIRSTLINE);
2887 3316 4 INSQUE (AED T CURLINE[LINE_L_FLINK],
2888 3317 4 .AED [FIRSTLINE[LINE_L_BLINK]]);
2889 3318 4 IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
2890 3319 4 THEN AED [LASTLINE] = AED T CURLINE;
2891 3320 4 IF .AED [BEGINLINE] EQL .AED_L_FIRSTLINE
2892 3321 4 THEN AED [BEGINLINE] = AED T CURLINE;
2893 3322 4 AED_L_FIRSTLINE = AED T CURLINE;
2894 3323 4 IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
2895 3324 4 AND .AED [FLAGS[AED_V_ENDACL]]
2896 3325 4 THEN AED_L_FLAGS[AED_V_ENDACL] = 0;
2897 3326 4 BUFFER_INDEX = 0;
2898 3327 4 AED_B_COLUMN = 1;
2899 3328 4 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
2900 3329 4 AED_L_FLAGS[AED_V_GOLDREY] = 0;
2901 3330 4 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
2902 3331 4 TERM_CHAR = 0;
2903 3332 4 RETURN 1;
2904 3333 3 END;
2905 3334 3 AED_L_FLAGS[AED_V_MODIFIED] = AED_L_FLAGS[AED_V_INSERT] = 0;
2906 3335 3 END;
2907 3336 2 AED_COMPRESS ();
2908 3337 2 AED_POSITION (AED Q LINETABLE[LINE_L_FLINK]);
2909 3338 2 INSQUE (AED T CURLINE[LINE_L_FLINK], .AED_Q_LINETABLE[LINE_L_BLINK]);
2910 3339 2 AED_L_FLAGS[AED_V_ENDACL] = T;
2911 3340 2 AED_L_FLAGS[AED_V_INSERTTEXT] = 1;
2912 3341 2 AED_W_TOTALSIZE = SEGMENT_SIZE = 0;
2913 3342 2 BUFFER_INDEX = 0;
2914 3343 2 AED_B_COLUMN = 1;
2915 3344 2 AED_L_FIRSTLINE = AED_L_LASTLINE = AED T CURLINE;
2916 3345 2 AED_L_FIRSTLINE[LINE_Q_FLAGS] = LINE_M_BEGINACE;
2917 3346 2 AED_L_CURACE = 0;
2918 3347 2 IF .AED_L_FLAGS[AED_V_PROMPT]
2919 3348 2 THEN
2920 3349 3 BEGIN
2921 3350 3 AED_B_ACETYPE = 0;
2922 3351 3 AED_L_FLAGS[AED_V_NOITEMSEL] = 0;
2923 3352 3 AED_SELECTFIELD (BUFFER_INDEX);
2924 3353 3 ECHO_DESC[DSC$W_LENGTH] = .AED T CURLINE[LINE_W_SIZE];
2925 3354 3 ECHO_DESC[DSC$A_POINTER] = AED T CURLINE[LINE_T_TEXT];
2926 3355 3 SCR$SET_CURSOR (.AED_B_LINE, 1);
2927 3356 3 AED_PUTOUTPUT (ECHO_DESC);
2928 3357 3 SCR$ERASE_LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
2929 3358 3 AED_B_COLUMN = .BUFFER_INDEX + 1;
2930 3359 3 AED_L_FLAGS[AED_V_FIRSTCHAR] = 1;
2931 3360 3 END;
2932 3361 2 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
2933 3362 2 AED_L_FLAGS[AED_V_GOLDREY] = 0;
2934 3363 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
2935 3364 2 TERM_CHAR = 0;
2936 3365 2 RETURN 1;
2937 3366 2
```


AED\$MAIN
V04-000
; 2938

ACT_BOTTOM - move to end of ACL
3367 1 END;

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! End of routine ACT_BOTTOM

				000C 00000 ACT_BOTTOM:			
		53	0000'	CF 9E 00002	.WORD	Save R2,R3	3254
		52	0000'	CF 9E 00007	MOVAB	NEW_TEXT_LINE, R3	
	0000G	CF		00 FB 0000C	MOVAB	AED_L_FLAGS, R2	
		63		50 D0 00011	CALLS	#0, AED_REPSEGMENT	3291
				62 95 00014	MOVL	R0, NEW_TEXT_LINE	
				0D 19 00016	TSTB	AED_L_FLAGS	3292
				05 E0 00018	BLSS	1\$	
08	01	A2		06 E0 0001D	BBS	#5, AED_L_FLAGS+1, 1\$	3293
03	01	A2		00A0 31 00022	BBS	#6, AED_L_FLAGS+1, 1\$	3294
				00 FB 00025	BRW	8\$	
	0000V	CF		A2 95 0002A	CALLS	#0, FINISH_ACE	3297
			01	10 18 0002D	TSTB	AED_L_FLAGS+1	3298
				04 E1 0002F	BGEQ	2\$	
0B	01	A2		63 D0 00034	BBC	#4, AED_L_FLAGS+1, 2\$	3299
		50		04 88 00037	MOVAB	NEW_TEXT_LINE, R0	3302
	0A	A0		02C4 C2 B4 0003B	BISB2	#4, -10(R0)	
				40 8F 8A 0003F	CLRW	AED_W_TOTALSIZE	3303
	01	A2		02C4 C2 B5 00044	BICB2	#64, AED_L_FLAGS+1	3305
				07 12 00048	TSTW	AED_W_TOTALSIZE	3306
		50		63 D0 0004A	BNEQ	3\$	
		63	04	A0 D0 0004D	MOVL	NEW_TEXT_LINE, R0	3307
	0000G	CF		00 FB 00051	MOVL	4(R0), NEW_TEXT_LINE	
		7E	02C4	C2 3C 00056	CALLS	#0, AED_COMPRESS	3308
	0000G	CF		01 FB 0005B	MOVZWL	AED_W_TOTALSIZE, -(SP)	3309
	008C	C2		50 D0 00060	CALLS	#1, AED_UPDATEACL	
		56	008C	C2 E8 00065	MOVL	R0, AED_L_STATUS	
		62	40	8F 88 0006A	BLBS	AED_L_STATUS, 7\$	3310
			40	A2 DD 0006E	BISB2	#64, AED_L_FLAGS	3313
	0000G	CF		01 FB 00071	PUSHL	AED_L_FIRSTLINE	3314
			40	A2 DD 00076	CALLS	#1, AED_POSITION	
	0000G	CF		01 FB 00079	PUSHL	AED_L_FIRSTLINE	3315
		50	40	A2 D0 0007E	CALLS	#1, AED_COPSEGMENT	
	04	B0	00B0	C2 0E 00082	MOVL	AED_L_FIRSTLINE, R0	3317
	40	A2	44	A2 D1 00088	INSQUE	AED_T_CURLINE, @4(R0)	
				06 12 0008D	CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	3318
	44	A2	00B0	C2 9E 0008F	BNEQ	4\$	
	40	A2	48	A2 D1 00095	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	3319
				06 12 0009A	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	3320
	48	A2	00B0	C2 9E 0009C	BNEQ	5\$	
	40	A2	00B0	C2 9E 000A2	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	3321
	44	A2	40	A2 D1 000A8	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	3322
				07 13 000AD	CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE	3323
03		62		05 E1 000AF	BEQL	6\$	
		62		20 8A 000B3	BBC	#5, AED_L_FLAGS, 6\$	3324
			E8	A3 D4 000B6	BICB2	#32, AED_L_FLAGS	3325
	20	A2		01 90 000B9	CLRL	BUFFER_INDEX	3326
				0092 31 000BD	MOVB	#1, AED_B_COLUMN	3327
		62	2080	8F AA 000C0	BRW	9\$	3328
	0000G	CF		00 FB 000C5	BICW2	#8320, AED_L_FLAGS	3334
					CALLS	#0, AED_COMPRESS	3336

		30	A2	9F	000CA	PUSHAB	AED_Q LINETABLE	3337
	0000G	CF	01	FB	000CD	CALLS	#1, AED_POSITION	3338
	34	B2	C2	0E	000D2	INSQUE	AED_T_CORLINE, @AED_Q_LINETABLE+4	3340
		62	8F	A8	000D8	BISW2	#16, AED_L_FLAGS	3341
			C2	B4	000DD	CLRW	SEGMENT_SIZE	3342
			C2	B4	000E1	CLRW	AED_W_TOTALSIZE	3343
		E8	A3	D4	000E5	CLRL	BUFFER_INDEX	3344
	20	A2	01	90	000E8	MOVB	#1, AED_B_COLUMN	3345
		50	C2	9E	000EC	MOVAB	AED_T_CORLINE, R0	3346
	44	A2	50	D0	000F1	MOVL	R0, AED_L_LASTLINE	3347
	40	A2	50	D0	000F5	MOVL	R0, AED_L_FIRSTLINE	3350
	0A	A0	01	B0	000F9	MOVW	#1, 10(R0)	3351
			A2	D4	000FD	CLRL	AED_L_CURACE	3352
			01	A2	95	TSTB	AED_L_FLAGS+1	3353
			4D	18	00103	BGEQ	9\$	3354
			C2	94	00105	CLRB	AED_B_ACETYPE	3355
	02	A2	08	8A	00109	BICB2	#8, AED_L_FLAGS+2	3356
		E8	A3	9F	0010D	PUSHAB	BUFFER_INDEX	3357
	0000G	CF	01	FB	00110	CALLS	#1, AED_SELECTFIELD	3358
	EC	A3	C2	B0	00115	MOVW	AED_T_CORLINE+8, ECHO_DESC	3359
	FO	A3	C2	9E	0011B	MOVAB	AED_T_CURLINE+20, ECHO_DESC+4	3360
			01	DD	00121	PUSHL	#1	3361
		7E	A2	9A	00123	MOVZBL	AED_B_LINE, -(SP)	3362
	00000000G	00	02	FB	00127	CALLS	#2, SCRSET_CURSOR	3363
		EC	A3	9F	0012E	PUSHAB	ECHO_DESC	3364
	0000G	CF	01	FB	00131	CALLS	#1, AED_PUTOUTPUT	3365
		7E	C2	3C	00136	MOVZWL	SEGMENT_SIZE, -(SP)	3366
			6E	D6	0013B	INCL	(SP)	3367
		7E	A2	9A	0013D	MOVZBL	AED_B_LINE, -(SP)	3368
	00000000G	00	02	FB	00141	CALLS	#2, SCRERASE_LINE	3369
20	A2	E8	01	81	00148	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	3370
		01	10	88	0014E	BISB2	#16, AED_L_FLAGS+1	3371
		7E	A2	9A	00152	MOVZBL	AED_B_COLUMN, -(SP)	3372
		7E	A2	9A	00156	MOVZBL	AED_B_LINE, -(SP)	3373
	0000G	CF	02	FB	0015A	CALLS	#2, AED_SET_CURSOR	3374
	01	A2	8F	AA	0015F	BICW2	#8200, AED_L_FLAGS+1	3375
			A3	94	00165	CLRB	TERM_CHAR	3376
		50	01	D0	00168	MOVL	#1, R0	3377
			04	0016B	RET			3378

; Routine Size: 364 bytes, Routine Base: \$CODE\$ + 1F0E

ACT_FIND_STR - locate specific string

```
2940 3368 1 %SBTTL 'ACT_FIND_STR - locate specific string'
2941 3369 1 ROUTINE ACT_FIND_STR =
2942 3370 1
2943 3371 1 ++
2944 3372 1
2945 3373 1 FUNCTIONAL DESCRIPTION:
2946 3374 1
2947 3375 1 This routine obtains the string to be searched for. If the search
2948 3376 1 string is terminated by the ADVANCE action key, the search is in
2949 3377 1 the forward direction. If the search string is terminated by the
2950 3378 1 BACKUP action key, the search is in the backward direction. The
2951 3379 1 screen is scrolled as necessary to accomodate the next occurrence
2952 3380 1 of the search string.
2953 3381 1
2954 3382 1 CALLING SEQUENCE:
2955 3383 1 ACT_FIND_STR ()
2956 3384 1
2957 3385 1 INPUT PARAMETERS:
2958 3386 1 none
2959 3387 1
2960 3388 1 IMPLICIT INPUTS:
2961 3389 1 OWN storage
2962 3390 1
2963 3391 1 OUTPUT PARAMETERS:
2964 3392 1 none
2965 3393 1
2966 3394 1 IMPLICIT OUTPUTS:
2967 3395 1 none
2968 3396 1
2969 3397 1 ROUTINE VALUE:
2970 3398 1 1 if successful
2971 3399 1 error status otherwise
2972 3400 1
2973 3401 1 SIDE EFFECTS:
2974 3402 1 The line segment table is updated as necessary, ACE line pointers
2975 3403 1 are updated, and the object's ACL is updated as necessary.
2976 3404 1
2977 3405 1 --
2978 3406 1
2979 3407 2 BEGIN
2980 3408 2
2981 3409 2 LOCAL
2982 3410 2 STRING_INDEX : VECTOR [1,WORD]; ! Index into search string buffer
2983 3411 2
2984 3412 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
2985 3413 2 SCR$SET_CURSOR (2T, 1);
2986 3414 2 AED_PUTOUTPUT ($DESCRIPTOR ('Search string: '));
2987 3415 2 STRING_INDEX = 0;
2988 3416 2 WHILE T
2989 3417 2 DO
2990 3418 3 BEGIN
2991 3419 3 TERM_CHAR = AED_DECODEKEY ();
2992 3420 3 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
2993 3421 3 IF TERM_CHAR EQL 0 THEN RETURN 1;
2994 3422 3 IF AED_L_FLAGS[AED_V_ACTIONKEY]
2995 3423 3 OR TERM_CHAR EQL AED_C_CHAR_ESC
2996 3424 3 THEN
```



```

: 2997      3425  4      BEGIN
: 2998      3426  4      IF .TERM_CHAR EQL KEY_C_RUB_BOL
: 2999      3427  4      THEN
: 3000      3428  5      BEGIN
: 3001      3429  5      SCR$ERASE PAGE (21, 1);
: 3002      3430  5      SCR$SET CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 3003      3431  5      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 3004      3432  5      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 3005      3433  5      TERM_CHAR = 0;
: 3006      3434  5      RETURN 1;
: 3007      3435  5      END
: 3008      3436  4      ELSE IF .TERM_CHAR EQL KEY_C_RUB_CHR
: 3009      3437  4      THEN
: 3010      3438  5      BEGIN
: 3011      3439  5      IF .STRING_INDEX GTR 0
: 3012      3440  5      THEN
: 3013      3441  6      BEGIN
: 3014      3442  6      STRING_INDEX = .STRING_INDEX - 1;
: 3015      3443  6      AED_PUTOUTPUT ($DESCRIPTOR (%CHAR (AED_C_CHAR_BS),
: 3016      3444  6      %CHAR (AED_C_CHAR_BS)));
: 3017      3445  6      END;
: 3018      3446  5      END;
: 3019      3447  5      ELSE EXITLOOP;
: 3020      3448  4      END
: 3021      3449  4      ELSE IF .TERM_CHAR GEQ ' '
: 3022      3450  3      THEN
: 3023      3451  4      BEGIN
: 3024      3452  4      IF .TERM_CHAR GEQ 'a' AND .TERM_CHAR LEQ 'z'
: 3025      3453  4      THEN TERM_CHAR = .TERM_CHAR - 32;      ! Convert lower to upper case
: 3026      3454  4      ECHO_DESC[DSC$W_LENGTH] = 1;
: 3027      3455  4      ECHO_DESC[DSC$A_POINTER] = TERM_CHAR;
: 3028      3456  4      AED_PUTOUTPUT (ECHO_DESC);
: 3029      3457  4      SEARCH_STRING[.STRING_INDEX] = .TERM_CHAR;
: 3030      3458  4      STRING_INDEX = .STRING_INDEX + 1;
: 3031      3459  4      END;
: 3032      3460  3      END;
: 3033      3461  2      SEARCH_SIZE = .STRING_INDEX;
: 3034      3462  2      SCR$ERASE PAGE (21, 1);
: 3035      3463  2      IF .SEARCH_SIZE EQL 0
: 3036      3464  2      THEN
: 3037      3465  3      BEGIN
: 3038      3466  3      SCR$SET CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 3039      3467  3      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 3040      3468  3      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 3041      3469  3      TERM_CHAR = 0;
: 3042      3470  3      RETURN 1;
: 3043      3471  3      END;
: 3044      3472  2      IF .AED_L_FLAGS[AED_V_ACTIONKEY]
: 3045      3473  2      THEN
: 3046      3474  3      BEGIN
: 3047      3475  3      IF .TERM_CHAR EQL KEY_C_ADVANCE THEN AED_L_FLAGS[AED_V_BACKWARD] = 0;
: 3048      3476  3      IF .TERM_CHAR EQL KEY_C_BACKUP THEN AED_L_FLAGS[AED_V_BACKWARD] = 1;
: 3049      3477  3      END;
: 3050      3478  2      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 3051      3479  2      TERM_CHAR = KEY_C_FIND_NXT;
: 3052      3480  2      RETURN 1;
: 3053      3481  2
```



```

: 3054      3482  2
: 3055      3483  1 END:

```

```
! End of routine ACT_FIND_STR
```

[illegible]

			C3	11	0006E	BRB	1\$	3436
	20		52	91	00070	4\$: CMPB	R2, #32	3450
			BE	1F	00073	BLSSU	1\$	
61	8F		52	91	00075	CMPB	R2, #97	3453
			09	1F	00079	BLSSU	5\$	
7A	8F		52	91	0007B	CMPB	R2, #122	
			03	1A	0007F	BGTRU	5\$	
	64		20	82	00081	SUBB2	#32, TERM_CHAR	3454
DC	A4		01	B0	00084	5\$: MOVW	#1, ECHO_DESC	3455
E0	A4		64	9E	00088	MOVAB	TERM_CHAR, ECHO_DESC+4	3456
		DC	A4	9F	0008C	PUSHAB	ECHO_DESC	3457
	68		01	FB	0008F	CALLS	#1, AED_PUTOUTPUT	
	50		53	3C	00092	MOVZWL	STRING_INDEX, R0	3458
08	A440		64	90	00095	MOVB	TERM_CHAR, SEARCH_STRING[R0]	
			53	B6	0009A	INCW	STRING_INDEX	3459
			95	11	0009C	BRB	1\$	3416
04	A4		53	B0	0009E	6\$: MOVW	STRING_INDEX, SEARCH_SIZE	3462
			01	DD	000A2	PUSHL	#1	3463
	67		15	DD	000A4	PUSHL	#21	
		04	02	FB	000A6	CALLS	#2, SCR\$ERASE_PAGE	
			A4	B5	000A9	TSTW	SEARCH_SIZE	3464
			15	12	000AC	BNEQ	9\$	
	7E	20	A5	9A	000AE	7\$: MOVZBL	AED_B_COLUMN, -(SP)	3467
	7E	24	A5	9A	000B2	MOVZBL	AED_B_LINE, -(SP)	
	66		02	FB	000B6	CALLS	#2, SCR\$SET_CURSOR	
01	A5	2008	8F	AA	000B9	BICW2	#8200, AED_L_FLAGS+1	3469
			64	94	000BF	CLRB	TERM_CHAR	3470
			1E	11	000C1	8\$: BRB	12\$	3471
12	02	A5	05	E1	000C3	9\$: BBC	#5, AED_L_FLAGS+2, 11\$	3473
		0C	64	91	000C8	CMPB	TERM_CHAR, #12	3476
			04	12	000CB	BNEQ	10\$	
01	A5		01	8A	000CD	BICB2	#1, AED_L_FLAGS+1	
	0E		64	91	000D1	10\$: CMPB	TERM_CHAR, #14	3477
			04	12	000D4	BNEQ	11\$	
01	A5		01	88	000D6	BISB2	#1, AED_L_FLAGS+1	
01	A5		08	8A	000DA	11\$: BICB2	#8, AED_L_FLAGS+1	3479
	64		05	90	000DE	MOVB	#5, TERM_CHAR	3480
	50		01	D0	000E1	12\$: MOVL	#1, R0	3481
			04	000E4	RET			3483

; Routine Size: 229 bytes, Routine Base: \$CODE\$ + 207A


```
3057 3484 1 %SBTTL 'ACT_FIND_NXT - locate next occurrence of string'
3058 3485 1 ROUTINE ACT_FIND_NXT =
3059 3486 1
3060 3487 1 ++
3061 3488 1
3062 3489 1 FUNCTIONAL DESCRIPTION:
3063 3490 1
3064 3491 1 This routine searches for the next occurrence of the selected search
3065 3492 1 string. The direction of the search depends of the state of the
3066 3493 1 BACKWARD flag.
3067 3494 1
3068 3495 1 CALLING SEQUENCE:
3069 3496 1 ACT_FIND_NXT ()
3070 3497 1
3071 3498 1 INPUT PARAMETERS:
3072 3499 1 none
3073 3500 1
3074 3501 1 IMPLICIT INPUTS:
3075 3502 1 OWN storage
3076 3503 1
3077 3504 1 OUTPUT PARAMETERS:
3078 3505 1 none
3079 3506 1
3080 3507 1 IMPLICIT OUTPUTS:
3081 3508 1 none
3082 3509 1
3083 3510 1 ROUTINE VALUE:
3084 3511 1 1 if successful
3085 3512 1 error status otherwise
3086 3513 1
3087 3514 1 SIDE EFFECTS:
3088 3515 1 The line segment table is updated as necessary, ACE line pointers
3089 3516 1 are updated, and the object's ACL is updated as necessary.
3090 3517 1
3091 3518 1 --
3092 3519 1
3093 3520 2 BEGIN
3094 3521 2
3095 3522 2 LOCAL
3096 3523 2 START_SEGMENT : REF $BBLOCK,
3097 3524 2 SEARCH_BEGIN : VECTOR [1,WORD],
3098 3525 2 SEARCH_END : VECTOR [1,WORD],
3099 3526 2 STRING_LOCATION,
3100 3527 2 NEW_ACE,
3101 3528 2 MATCH_SEGMENT : REF $BBLOCK;
3102 3529 2
3103 3530 2 IF .SEARCH_SIZE EQL 0
3104 3531 2 THEN
3105 3532 2 BEGIN
3106 3533 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3107 3534 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3108 3535 2 TERM_CHAR = 0;
3109 3536 2 RETURN 1;
3110 3537 2 END;
3111 3538 2 IF NOT .AED_L_FLAGS[AED_V_BACKWARD]
3112 3539 2 THEN
3113 3540 2 BEGIN
```

! Line where search started
! Where to start the search
! Where the search ends
! Location of the found string or 0
! String found in new ACE flag
! Address of line that matched


```
3114 3541 3 ! See if the specified string is within the current line.
3115 3542
3116 3543
3117 3544 SEARCH_BEGIN = .BUFFER_INDEX + .SEARCH_SIZE;
3118 3545 IF .SEARCH_BEGIN GEQ .SEGMENT_SIZE
3119 3546 OR .SEARCH_BEGIN + .SEARCH_SIZE GTR .SEGMENT_SIZE
3120 3547 THEN STRING_LOCATION = 0
3121 3548 ELSE STRING_LOCATION = CH$FIND_SUB (.SEGMENT_SIZE - .SEARCH_BEGIN,
3122 3549 INPUT_BUFFER[.SEARCH_BEGIN],
3123 3550 .SEARCH_SIZE, SEARCH_STRING);
3124 3551
3125 3552 IF .STRING_LOCATION NEQ 0
3126 3553 THEN
3127 3554 BEGIN
3128 3555 BUFFER_INDEX = .STRING_LOCATION - INPUT_BUFFER[0];
3129 3556 AED_B_COLUMN = .BUFFER_INDEX + 1;
3130 3557 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
3131 3558 AED_L_FLAGS[AED_V_GODREY] = 0;
3132 3559 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3133 3560 TERM_CHAR = 0;
3134 3561 RETURN 1;
3135 3562 END;
3136 3563 ! The specified search string is not within the current line. Update the
3137 3564 text ACE with the current line segment. Then loop through the remaining
3138 3565 line segments in the line table looking for the search string. If it is
3139 3566 found beyond the end of the current ACE, update the ACL with the current
3140 3567 ACE. Otherwise, simply set the various pointers to point to the line
3141 3568 segment where the search string was found.
3142 3569
3143 3570 NEW_TEXT_LINE = AED_REPSEGMENT ();
3144 3571 START_SEGMENT = .NEW_TEXT_LINE;
3145 3572 AED_L_FLAGS[AED_V_ENDACL] = 0;
3146 3573 AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
3147 3574 MATCH_SEGMENT = .NEW_TEXT_LINE[LINE_L_FLINK];
3148 3575 NEW_ACE = .AED_L_LASTLINE - EQL .NEW_TEXT_LINE;
3149 3576 SEARCH_BEGIN = 0;
3150 3577 UNTIL .MATCH_SEGMENT EQLA AED_Q_LINETABLE[LINE_L_FLINK]
3151 3578 DO
3152 3579 BEGIN
3153 3580 STRING_LOCATION = CH$FIND_SUB (.MATCH_SEGMENT[LINE_W_SIZE] -
3154 3581 .SEARCH_BEGIN,
3155 3582 VECTOR [MATCH_SEGMENT[LINE_T_TEXT],
3156 3583 .SEARCH_BEGIN, BYTE],
3157 3584 .SEARCH_SIZE, SEARCH_STRING);
3158 3585
3159 3586 IF .STRING_LOCATION NEQ 0
3160 3587 THEN
3161 3588 BEGIN
3162 3589 IF .NEW_ACE
3163 3590 AND (.AED_L_FLAGS[AED_V_MODIFIED]
3164 3591 OR .AED_L_FLAGS[AED_V_INSERT]
3165 3592 OR .AED_L_FLAGS[AED_V_INSERTTEXT])
3166 3593 THEN
3167 3594 BEGIN
3168 3595 FINISH_ACE ();
3169 3596 IF .AED_L_FLAGS[AED_V_PROMPT]
3170 3597 AND .AED_L_FLAGS[AED_V_FIRSTCHAR]
3170 3597 THEN
```



```
3171 3598 7 BEGIN
3172 3599 7 NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
3173 3600 7 AED_W_TOTALSIZE = 0;
3174 3601 6 END;
3175 3602 6 AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
3176 3603 6 IF .AED_W_TOTALSIZE EQL 0
3177 3604 6 THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
3178 3605 6 AED_COMPRESS T);
3179 3606 6 AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
3180 3607 6 IF NOT .AED_L_STATUS
3181 3608 6 THEN
3182 3609 7 BEGIN
3183 3610 7 AED_L_FLAGS[AED_V_ACERROR] = 1;
3184 3611 7 AED_POSITION (.AED_L_FIRSTLINE);
3185 3612 7 AED_COPSEGMENT (.AED_L_FIRSTLINE);
3186 3613 7 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
3187 3614 7 .AED_C_FIRSTLINE[LINE_L_BLINK]);
3188 3615 7 IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
3189 3616 7 THEN AED_C_LASTLINE = AED_T_CURLINE;
3190 3617 7 IF .AED_C_BEGINLINE EQL .AED_L_FIRSTLINE
3191 3618 7 THEN AED_C_BEGINLINE = AED_T_CURLINE;
3192 3619 7 AED_L_FIRSTLINE = AED_T_CURLINE;
3193 3620 7 IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
3194 3621 7 AND .AED_C_FLAGS[AED_V_ENDACL]
3195 3622 7 THEN AED_L_FLAGS[AED_V_ENDACL] = 0;
3196 3623 7 BUFFER_INDEX = 0;
3197 3624 7 AED_B_COLUMN = 1;
3198 3625 7 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
3199 3626 7 AED_L_FLAGS[AED_V_GOLDREY] = 0;
3200 3627 7 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3201 3628 7 TERM_CHAR = 0;
3202 3629 7 RETURN 1;
3203 3630 6 END;
3204 3631 6 AED_L_FLAGS[AED_V_MODIFIED] = AED_L_FLAGS[AED_V_INSERT] = 0;
3205 3632 5 END;
3206 3633 5 AED_L_FIRSTLINE = AED_L_LASTLINE = .MATCH_SEGMENT;
3207 3634 5 AED_W_TOTALSIZE = .AED_C_FIRSTLINE[LINE_W_SIZE];
3208 3635 5 UNTIL .AED_L_FIRSTLINE[LINE_V_BEGINACE]
3209 3636 5 DO
3210 3637 6 BEGIN
3211 3638 6 AED_L_FIRSTLINE = .AED_L_FIRSTLINE[LINE_L_BLINK];
3212 3639 6 AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_FIRSTLINE[LINE_W_SIZE];
3213 3640 5 END;
3214 3641 5 DO
3215 3642 6 BEGIN
3216 3643 6 AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
3217 3644 6 AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_LASTLINE[LINE_W_SIZE];
3218 3645 5 END
3219 3646 5 UNTIL .AED_L_LASTLINE[LINE_V_BEGINACE]
3220 3647 5 OR .AED_L_LASTLINE EQLA AED_Q_LINETABLE[LINE_L_FLINK];
3221 3648 5 AED_W_TOTALSIZE = .AED_W_TOTALSIZE - .AED_L_LASTLINE[LINE_W_SIZE];
3222 3649 5 AED_L_LASTLINE = .AED_C_LASTLINE[LINE_L_BLINK];
3223 3650 5 AED_POSITION (.MATCH_SEGMENT);
3224 3651 5 AED_COPSEGMENT (.MATCH_SEGMENT);
3225 3652 5 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
3226 3653 5 .MATCH_SEGMENT[LINE_C_BLINK]);
3227 3654 5 IF .AED_L_BEGINLINE EQL .MATCH_SEGMENT
```



```
.. 3228 3655 5 THEN AED L BEGINLINE = AED T CURLINE[LINE_L_FLINK];
.. 3229 3656 5 IF .AED C FIRSTLINE EQL .MATCH_SEGMENT
.. 3230 3657 5 THEN AED C FIRSTLINE = AED T CURLINE[LINE_L_FLINK];
.. 3231 3658 5 IF .AED C LASTLINE EQL .MATCH_SEGMENT
.. 3232 3659 5 THEN AED C LASTLINE = AED T CURLINE[LINE_L_FLINK];
.. 3233 3660 5 AED L CURACE = .AED L FIRSTCINE[LINE_L_BINACE];
.. 3234 3661 5 BUFFER_INDEX = .STRING_LOCATION - MATCH_SEGMENT[LINE_T_TEXT];
.. 3235 3662 5 AED B COLUMN = .BUFFER_INDEX + 1;
.. 3236 3663 5 AED SET CURSOR (.AED B LINE, .AED B COLUMN);
.. 3237 3664 5 AED L FLAGS[AED V GOLDREY] = 0;
.. 3238 3665 5 AED L FLAGS[AED V ACTIONKEY] = 0;
.. 3239 3666 5 TERM CHAR = 0;
.. 3240 3667 5 RETURN 1;
.. 3241 3668 5 END;
.. 3242 3669 4 IF .AED L LASTLINE EQL .MATCH_SEGMENT THEN NEW_ACE = 1;
.. 3243 3670 4 MATCH_SEGMENT = .MATCH_SEGMENT[LINE_L_FLINK];
.. 3244 3671 4 SEARCH_BEGIN = 0;
.. 3245 3672 4 END;
.. 3246 3673 3 END
.. 3247 3674 2 ELSE
.. 3248 3675 2 BEGIN
.. 3249 3676 2 NEW_TEXT_LINE = AED REPSEGMENT ();
.. 3250 3677 2 START_SEGMENT = .NEW_TEXT_LINE;
.. 3251 3678 2 MATCH_SEGMENT = NEW_TEXT [INE[LINE_L_FLINK];
.. 3252 3679 2 AED L FLAGS[AED V ENDACL] = 0;
.. 3253 3680 2 AED L FLAGS[AED V INSERTTEXT] = 0;
.. 3254 3681 2 NEW_ACE = 0;
.. 3255 3682 2 SEARCH_END = .BUFFER_INDEX;
.. 3256 3683 2 UNTIL .MATCH_SEGMENT EQLA AED Q LINETABLE[LINE_L_FLINK]
.. 3257 3684 2 DO
.. 3258 3685 2 BEGIN
.. 3259 3686 2 STRING_LOCATION = CH$FIND_SUB (.SEARCH_END, MATCH_SEGMENT[LINE_T_TEXT],
.. 3260 3687 2 .SEARCH_SIZE, SEARCH_STRING);
.. 3261 3688 2 IF .STRING_LOCATION NEQ 0
.. 3262 3689 2 THEN
.. 3263 3690 2 BEGIN
.. 3264 3691 2 IF .NEW_ACE
.. 3265 3692 2 AND (.AED L FLAGS[AED V MODIFIED]
.. 3266 3693 2 OR .AED L FLAGS[AED V INSERT]
.. 3267 3694 2 OR .AED L FLAGS[AED V INSERTTEXT])
.. 3268 3695 2 THEN
.. 3269 3696 2 BEGIN
.. 3270 3697 2 FINISH_ACE ();
.. 3271 3698 2 IF .AED L FLAGS[AED V PROMPT]
.. 3272 3699 2 AND .AED C FLAGS[AED V FIRSTCHAR]
.. 3273 3700 2 THEN
.. 3274 3701 2 BEGIN
.. 3275 3702 2 NEW_TEXT_LINE[LINE V_DUMMY] = 1;
.. 3276 3703 2 AED W TOTALSIZE = 0;
.. 3277 3704 2 END;
.. 3278 3705 2 IF .AED W TOTALSIZE EQL 0
.. 3279 3706 2 THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
.. 3280 3707 2 AED COMPRESS ?;
.. 3281 3708 2 AED L STATUS = AED UPDATEACL (.AED W TOTALSIZE);
.. 3282 3709 2 IF NOT .AED L STATUS
.. 3283 3710 2 THEN
.. 3284 3711 2 BEGIN
```



```
3285 3712 7 AED_L_FLAGS[AED_V_ACERROR] = 1;
3286 3713 7 AED_POSITION (.AED_L_FIRSTLINE);
3287 3714 7 AED_COPSEGMENT (.AED_L_FIRSTLINE);
3288 3715 7 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
3289 3716 7 .AED_L_FIRSTLINE[LINE_L_BLINK]);
3290 3717 7 IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
3291 3718 7 THEN AED_L_LASTLINE = AED_T_CURLINE;
3292 3719 7 IF .AED_L_BEGINLINE EQL .AED_L_FIRSTLINE
3293 3720 7 THEN AED_L_BEGINLINE = AED_T_CURLINE;
3294 3721 7 AED_L_FIRSTLINE = AED_T_CURLINE;
3295 3722 7 IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
3296 3723 7 AND .AED_L_FLAGS[AED_V_ENDACL]
3297 3724 7 THEN AED_L_FLAGS[AED_V_ENDACL] = 0;
3298 3725 7 BUFFER_INDEX = 0;
3299 3726 7 AED_B_COLUMN = 1;
3300 3727 7 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
3301 3728 7 AED_L_FLAGS[AED_V_GOODKEY] = 0;
3302 3729 7 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3303 3730 7 TERM_CHAR = 0;
3304 3731 7 RETURN 1;
3305 3732 6 END;
3306 3733 6 AED_L_FLAGS[AED_V_MODIFIED] = AED_L_FLAGS[AED_V_INSERT] = 0;
3307 3734 5 END;
3308 3735 5 SEARCH_BEGIN = .SEARCH_END;
3309 3736 5 WHILE T
3310 3737 5 DO
3311 3738 6 BEGIN
3312 3739 6 SEARCH_BEGIN = .SEARCH_BEGIN - .SEARCH_SIZE;
3313 3740 6 STRING_LOCATION = CH$FIND_SUB (.SEARCH_END - .SEARCH_BEGIN,
3314 3741 6 VECTOR [MATCH_SEGMENT[LINE_T_TEXT],
3315 3742 6 .SEARCH_BEGIN, BYTE],
3316 3743 6 .SEARCH_SIZE, SEARCH_STRING);
3317 3744 6 IF .STRING_LOCATION NEQ 0
3318 3745 6 THEN
3319 3746 7 BEGIN
3320 3747 7 AED_L_FIRSTLINE = AED_L_LASTLINE = .MATCH_SEGMENT;
3321 3748 7 AED_W_TOTALSIZE = .AED_L_FIRSTLINE[LINE_W_SIZE];
3322 3749 7 UNTIL .AED_L_FIRSTLINE[LINE_V_BEGINACE]
3323 3750 7 DO
3324 3751 8 BEGIN
3325 3752 8 AED_L_FIRSTLINE = .AED_L_FIRSTLINE[LINE_L_BLINK];
3326 3753 8 AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_FIRSTLINE[LINE_W_SIZE];
3327 3754 8 END;
3328 3755 7 DO
3329 3756 8 BEGIN
3330 3757 8 AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
3331 3758 8 AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .AED_L_LASTLINE[LINE_W_SIZE];
3332 3759 8 END;
3333 3760 7 UNTIL .AED_L_LASTLINE[LINE_V_BEGINACE]
3334 3761 7 OR .AED_L_LASTLINE EQL AED_Q_LINETABLE[LINE_L_FLINK];
3335 3762 7 AED_W_TOTALSIZE = .AED_W_TOTALSIZE - .AED_L_LASTLINE[LINE_W_SIZE];
3336 3763 7 AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_BLINK];
3337 3764 7 AED_POSITION (.MATCH_SEGMENT);
3338 3765 7 AED_COPSEGMENT (.MATCH_SEGMENT);
3339 3766 7 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
3340 3767 7 .MATCH_SEGMENT[LINE_L_BLINK]);
3341 3768 7 IF .AED_L_BEGINLINE EQL .MATCH_SEGMENT
```



```
3342 3769 7 THEN AED_L BEGINLINE = AED_T CURLINE[LINE_L_FLINK];
3343 3770 7 IF .AED_C FIRSTLINE EQL .MATCH_SEGMENT
3344 3771 7 THEN AED_C FIRSTLINE = AED_T CURLINE[LINE_L_FLINK];
3345 3772 7 IF .AED_C LASTLINE EQL .MATCH_SEGMENT
3346 3773 7 THEN AED_C LASTLINE = AED_T CURLINE[LINE_L_FLINK];
3347 3774 7 AED_L CURACE = .AED_L FIRSTCINELINE_L BINACE];
3348 3775 7 BUFFER_INDEX = .STRING_LOCATION - MATCH_SEGMENT[LINE_T_TEXT];
3349 3776 7 AED_B COLUMN = .BUFFER_INDEX + 1;
3350 3777 7 AED_SET_CURSOR (.AED_B LINE, .AED_B_COLUMN);
3351 3778 7 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3352 3779 7 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3353 3780 7 TERM_CHAR = 0;
3354 3781 7 RETURN 1;
3355 3782 6 END;
3356 3783 5 END;
3357 3784 4 END;
3358 3785 4 IF .AED_L FIRSTLINE EQL .MATCH_SEGMENT THEN NEW_ACE = 1;
3359 3786 4 MATCH_SEGMENT = .MATCH_SEGMENT[LINE_L_BLINK];
3360 3787 4 SEARCH_END = .MATCH_SEGMENT[LINE_W_SIZE];
3361 3788 3 END;
3362 3789 2 END;
3363 3790 2 SIGNAL (AED$ NOTFOUND);
3364 3791 2 AED_COPSEGMENT (.START_SEGMENT);
3365 3792 2 INSQUE (AED_T CURLINE[LINE_L_FLINK], .START_SEGMENT[LINE_L_BLINK]);
3366 3793 2 IF .AED_L BEGINLINE EQL .START_SEGMENT THEN AED_L BEGINLINE = AED_T CURLINE[LINE_L_FLINK];
3367 3794 2 IF .AED_L FIRSTLINE EQL .START_SEGMENT THEN AED_L FIRSTLINE = AED_T CURLINE[LINE_L_FLINK];
3368 3795 2 IF .AED_L LASTLINE EQL .START_SEGMENT THEN AED_C LASTLINE = AED_T CURLINE[LINE_L_FLINK];
3369 3796 2 AED_L_FLAGS[AED_V_ACERROR] = 1;
3370 3797 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3371 3798 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3372 3799 2 TERM_CHAR = 0;
3373 3800 2 RETURN 1;
3374 3801 2
3375 3802 1 END;
```

! End of routine ACT_FIND_NXT

OFFC 00000 ACT_FIND_NXT:						
	5B	0000'	CF 9E 00002	WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	3485
	5A	0000'	CF 9E 00007	MOVAB	NEW_TEXT_LINE, R11	
	54	14	AB 3C 0000C	MOVAB	AED_L_FIRSTLINE, R10	
			03 12 00010	MOVZWL	SEARCH_SIZE, R4	3530
			0426 31 00012	BNEQ	1\$	
	03	C1	AA E9 00015	BRW	70\$	
			01D6 31 00019	BLBC	AED_L_FLAGS+1, 2\$	3538
57	E8	AB	54 A1 0001C	BRW	33\$	
			57 3C 00021	ADDW3	R4, BUFFER_INDEX, SEARCH_BEGIN	3544
			51 78 AA 3C 00024	MOVZWL	SEARCH_BEGIN, R0	3545
			50 3C 00028	MOVZWL	SEGMENT_SIZE, R1	
			09 D1 0002B	CMPL	R0, R1	
52			54 C1 0002D	BGEQ	3\$	
			52 D1 00031	ADDL3	R4, R0, R2	3546
			04 15 00034	CMPL	R2, R1	
			52 D4 00036	BLEQ	4\$	
				CLRL	STRING_LOCATION	3547

0084	CA40	51	18	51	AB	17	11	00038	BRB	6\$			
				50	C2	0003A	4\$:	SUBL2	R0, R1				3548
				54	39	0003D		MATCHC	R4, SEARCH_STRING, R1, INPUT_BUFFER[R0]				3549
				03	13	00046		BEQL	5\$				
				53	54	00048		MOVL	R4, R3				
				53	54	0004B	5\$:	SUBL2	R4, R3				
				52	53	0004E		MOVL	R3, STRING_LOCATION				
				0D	13	00051	6\$:	BEQL	7\$				3551
				50	CA	9E	00053	MOVAB	INPUT_BUFFER, R0				3554
E8	AB			52	50	C3	00058	SUBL3	R0, STRING_LOCATION, BUFFER_INDEX				
					032A	31	0005D	BRW	59\$				3555
		0000G		CF	00	FB	00060	7\$:	CALLS	#0, AED_REPSEGMENT			3570
				6B	50	D0	00065	MOVL	R0, NEW_TEXT_LINE				
				51	6B	D0	00068	MOVL	NEW_TEXT_LINE, R1				3571
				56	51	D0	0006B	MOVL	R1, START_SEGMENT				
		C0		AA	4020	8F	AA	0006E	BICW2	#16416, AED_L_FLAGS			3573
				54	61	D0	00074	MOVL	(R1), MATCH_SEGMENT				3574
					50	D4	00077	CLRL	R0				3575
				51	04	AA	D1	00079	CMPL	AED_L_LASTLINE, R1			
					02	12	0007D	BNEQ	8\$				
					50	D6	0007F	INCL	R0				
				58	50	D0	00081	8\$:	MOVL	R0, NEW_ACE			
					57	B4	00084	9\$:	CLRW	SEARCH_BEGIN			3576
				50	AA	9E	00086	MOVAB	AED_Q_LINETABLE, R0				3577
				50	54	D1	0008A	CMPL	MATCH_SEGMENT, R0				
					03	12	0008D	BNEQ	10\$				
					0321	31	0008F	BRW	63\$				
				50	57	3C	00092	10\$:	MOVZWL	SEARCH_BEGIN, R0			3581
				51	08	A4	3C	00095	MOVZWL	8(MATCH_SEGMENT), R1			
				51	50	C2	00099	SUBL2	R0, R1				
				55	14	AB	3C	0009C	MOVZWL	SEARCH_SIZE, R5			3584
14	A044	51	18	AB	55	39	000A0	MATCHC	R5, SEARCH_STRING, R1, 20(R0)-				3583
									[MATCH_SEGMENT]				
					03	13	000A8	BEQL	11\$				
				53	55	D0	000AA	MOVL	R5, R3				
				53	55	C2	000AD	11\$:	SUBL2	R5, R3			
				52	53	D0	000B0	MOVL	R3, STRING_LOCATION				
					03	12	000B3	BNEQ	12\$				3585
					012B	31	000B5	BRW	31\$				
				03	58	E8	000B8	12\$:	BLBS	NEW_ACE, 14\$			3588
					00A2	31	000BB	13\$:	BRW	23\$			
					C0	AA	95	000BE	14\$:	TSTB	AED_L_FLAGS		3589
						0A	19	000C1	15\$:	BLSS	15\$		
					05	E0	000C3	BBS	#5, AED_L_FLAGS+1, 15\$				3590
					06	E1	000C8	BBC	#6, AED_L_FLAGS+1, 13\$				3591
					00	FB	000CD	15\$:	CALLS	#0, FINISH_ACE			3594
					C1	AA	95	000D2	TSTB	AED_L_FLAGS+1			3595
						10	18	000D5	BGEQ	16\$			
					04	E1	000D7	BBC	#4, AED_L_FLAGS+1, 16\$				3596
					6B	D0	000DC	MOVL	NEW_TEXT_LINE, R0				3599
					04	88	000DF	BISB2	#4, 10(R0)				
					0284	CA	B4	000E3	CLRW	AED_W_TOTALSIZE			3600
					40	8F	8A	000E7	16\$:	BICB2	#64, AED_L_FLAGS+1		3602
					0284	CA	B5	000EC	TSTW	AED_W_TOTALSIZE			3603
						03	12	000F0	BNEQ	17\$			
						9B	D0	000F2	MOVL	@NEW_TEXT_LINE, NEW_TEXT_LINE			3604
					0000G	7B	00	FB	000F5	17\$:	CALLS	#0, AED_COMPRESS	3605
					CF								

0000G	7E	0284	CA	3C	000FA	MOVZWL	AED_W TOTALSIZE, -(SP)	3606
4C	CF		01	FB	000FF	CALLS	#1, AED_UPDATEACL	
	AA		50	DO	00104	MOVL	RO, AED_L STATUS	
CO	4E	4C	AA	E8	00108	BLBS	AED_L STATUS, 22\$	3607
	AA	40	8F	88	0010C	BISB2	#64, AED_L FLAGS	3610
0000G	CF		6A	DD	00111	PUSHL	AED_L_FIRSTLINE	3611
			01	FB	00113	CALLS	#1, AED_POSITION	
0000G	CF		6A	DD	00118	PUSHL	AED_L_FIRSTLINE	3612
			01	FB	0011A	CALLS	#1, AED_COPSEGMENT	
04	50		6A	DO	0011F	MOVL	AED_L_FIRSTLINE, RO	3614
	BO	70	AA	OE	00122	INSQUE	AED_T_CURLINE, 24(RO)	
	6A	04	AA	D1	00127	CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	3615
			05	12	0012B	BNEQ	18\$	
04	AA	70	AA	9E	0012D	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	3616
	6A	08	AA	D1	00132	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	3617
			05	12	00136	BNEQ	19\$	
08	AA	70	AA	9E	00138	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	3618
	6A	70	AA	9E	0013D	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	3619
04	AA		6A	D1	00141	CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE	3620
			09	13	00145	BEQL	21\$	
04	CO		05	E1	00147	BBC	#5, AED_L FLAGS, 21\$	3621
	CO		20	8A	0014C	BICB2	#32, AED_L FLAGS	3622
		E8	AB	D4	00150	CLRL	BUFFER INDEX	3623
E0	AA		01	90	00153	MOVB	#1, AED_B_COLUMN	3624
			31	00157	BRW	60\$		3625
CO	AA	2080	8F	AA	0015A	BICW2	#8320, AED_L FLAGS	3631
04	AA		54	DO	00160	MOVL	MATCH_SEGMENT, AED_L_LASTLINE	3633
	6A		54	DO	00164	MOVL	MATCH_SEGMENT, AED_L_FIRSTLINE	
	50		6A	DO	00167	MOVL	AED_L_FIRSTLINE, RO	3634
0284	CA	08	A0	B0	0016A	MOVW	8(RO), AED_W TOTALSIZE	
	50		6A	DO	00170	MOVL	AED_L_FIRSTLINE, RO	3635
	OF	0A	A0	E8	00173	BLBS	10(RO), 25\$	
	6A	04	A0	DO	00177	MOVL	4(RO), AED_L_FIRSTLINE	3638
	50		6A	DO	0017B	MOVL	AED_L_FIRSTLINE, RO	3639
0284	CA	08	A0	A0	0017E	ADDW2	8(RO), AED_W TOTALSIZE	
			ED	11	00184	BRB	24\$	3635
	50	04	AA	DO	00186	MOVL	AED_L_LASTLINE, RO	3643
04	AA		60	DO	0018A	MOVL	(RO), AED_L_LASTLINE	
	50	04	AA	DO	0018E	MOVL	AED_L_LASTLINE, RO	3644
0284	CA	08	A0	A0	00192	ADDW2	8(RO), AED_W TOTALSIZE	
	09	0A	A0	E8	00198	BLBS	10(RO), 27\$	3646
	51	F0	AA	9E	0019C	MOVAB	AED_Q LINETABLE, R1	3647
	51		50	D1	001A0	CMPL	RO, RT	
			E5	12	001A3	BNEQ	26\$	
0284	CA	08	A0	A2	001A5	SUBW2	8(RO), AED_W TOTALSIZE	3648
04	AA	04	A0	DO	001AB	MOVL	4(RO), AED_L_LASTLINE	3649
			54	DO	001B0	PUSHL	MATCH_SEGMENT	3650
0000G	CF		01	FB	001B2	CALLS	#1, AED_POSITION	
			54	DD	001B7	PUSHL	MATCH_SEGMENT	3651
0000G	CF		01	FB	001B9	CALLS	#1, AED_COPSEGMENT	
04	B4	70	AA	OE	001BE	INSQUE	AED_T_CURLINE, 24(MATCH_SEGMENT)	3653
	54	08	AA	D1	001C3	CMPL	AED_L_BEGINLINE, MATCH_SEGMENT	3654
			05	12	001C7	BNEQ	28\$	
08	AA	70	AA	9E	001C9	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	3655
	54		6A	D1	001CE	CMPL	AED_L_FIRSTLINE, MATCH_SEGMENT	3656
			04	12	001D1	BNEQ	29\$	
	6A	70	AA	9E	001D3	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	3657

		54	04	AA	D1	001D7	29\$:	CMPL	AED_L_LASTLINE, MATCH_SEGMENT	3658	
				03	13	001DB		BEQL	30\$		
				0199	31	001DD		BRW	58\$		
		54	04	AA	D1	001E0	30\$:	BRW	57\$		
				03	12	001E7	31\$:	CMPL	AED_L_LASTLINE, MATCH_SEGMENT	3669	
		58		01	D0	001E9		BNEQ	32\$		
		54		64	D0	001EC	32\$:	MOVL	#1, NEW ACE	3670	
				FE92	31	001EF		BRW	(MATCH_SEGMENT), MATCH_SEGMENT	3671	
0000G	CF			00	FB	001F2	33\$:	CALLS	#0, AED_REPSEGMENT	3676	
	6B			50	D0	001F7		MOVL	R0, NEW_TEXT_LINE		
	56			6B	D0	001FA		MOVL	NEW_TEXT_LINE, START_SEGMENT	3677	
	54			6B	D0	001FD		MOVL	NEW_TEXT_LINE, MATCH_SEGMENT	3678	
	CO	AA	4020	8F	AA	00200		BICW2	#16416, AED_L_FLAGS	3680	
				58	D4	00206		CLRL	NEW ACE	3681	
	59			E8	AB	B0	00208	MOVW	BUFFER_INDEX, SEARCH_END	3682	
	50			F0	AA	9E	0020C	34\$:	AED_Q_CINETABLE, R0	3683	
	50				D1	00210		CMPL	MATCH_SEGMENT, R0		
					03	12	00213	BNEQ	35\$		
				019B	31	00215		BRW	63\$		
14	A4	59	18	AB	14	AB	3C	00218	35\$:	3687	
						55	39	0021C	MOVZWL	SEARCH_SIZE, R5	3686
								MATCHC	R5, SEARCH_STRING, SEARCH_END, -		
						03	13	00223	20(MATCH_SEGMENT)		
		53				55	D0	00225	BEQL	36\$	
		53				55	C2	00228	36\$:		
		52				53	D0	0022B	MOVL	R5, R3	
						03	12	0022E	SUBL2	R5, R3	
						016D	31	00230	MOVL	R3, STRING_LOCATION	
		03				58	E8	00233	BNEQ	37\$	
						0095	31	00236	BRW	61\$	
						CO	AA	95	BLBS	NEW_ACE, 39\$	
							0A	19	BRW	48\$	
							05	E0	TSTB	AED_L_FLAGS	
05	C1	AA					06	E1	BLSS	40\$	
EE	C1	AA					00	FB	BBS	#5, AED_L_FLAGS+1, 40\$	
	0000V	CF					00	FB	BBC	#6, AED_L_FLAGS+1, 38\$	
							00	FB	CALLS	#0, FINISH_ACE	
							C1	AA	40\$:	AED_L_FLAGS+1	
							10	18	TSTB	41\$	
							04	E1	BGEQ	41\$	
OB	C1	AA					6B	D0	BBC	#4, AED_L_FLAGS+1, 41\$	
		50					04	88	MOVL	NEW_TEXT_LINE, R0	
	OA	AO					04	88	BISB2	#4, -10(R0)	
							0284	CA	CLRW	AED_W_TOTALSIZE	
							0284	CA	41\$:	AED_W_TOTALSIZE	
							03	12	TSTW	42\$	
							9B	D0	BNEQ	42\$	
							00	FB	MOVL	NEW_TEXT_LINE, NEW_TEXT_LINE	
0000G	CF						00	FB	CALLS	#0, AED_COMPRESS	
	7E						0284	CA	MOVZWL	AED_W_TOTALSIZE, -(SP)	
0000G	CF						01	FB	CALLS	#1, AED_UPDATEACL	
	4C	AA					50	D0	CALLS	R0, AED_L_STATUS	
	46						4C	AA	BLBS	AED_L_STATUS, 47\$	
	CO	AA					40	8F	BISB2	#64, AED_L_FLAGS	
							6A	DD	PUSHL	AED_L_FIRSTLINE	
0000G	CF						01	FB	CALLS	#1, AED_POSITION	
							6A	DD	PUSHL	AED_L_FIRSTLINE	
0000G	CF						01	FB	CALLS	#1, AED_COPSEGMENT	
	50						6A	D0	MOVL	AED_L_FIRSTLINE, R0	
	04	B0					70	AA	INSQUE	AED_T_CURLINE, @4(R0)	

	6A	04	AA	D1	0029D	CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	3717
			05	12	002A1	BNEQ	43\$	
04	AA	70	AA	9E	002A3	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	3718
	6A	08	AA	D1	002AB	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	3719
			05	12	002AC	BNEQ	44\$	
08	AA	70	AA	9E	002AE	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	3720
	6A	70	AA	9E	002B3	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	3721
04	AA		6A	D1	002B7	CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE	3722
			03	12	002BB	BNEQ	46\$	
			FE90	31	002BD	BRW	21\$	
F8	CO	AA	05	E1	002C0	BBC	#5, AED_L_FLAGS, 45\$	3723
			FE84	31	002C5	BRW	20\$	
	CO	AA	8F	AA	002C8	BICW2	#8320, AED_L_FLAGS	3733
	57	2080	59	B0	002CE	MOVW	SEARCH_END, SEARCH_BEGIN	3735
	57	14	AB	A2	002D1	SUBW2	SEARCH_SIZE, SEARCH_BEGIN	3739
	50		57	3C	002D5	MOVZWL	SEARCH_BEGIN, R0	3740
	51		59	3C	002D8	MOVZWL	SEARCH_END, R1	
	51		50	C2	002DB	SUBL2	R0, R1	
14 A044	51	18	AB	3C	002DE	MOVZWL	SEARCH_SIZE, R5	3743
			55	39	002E2	MATCHC	R5, SEARCH_STRING, R1, 20(R0)- [MATCH_SEGMENT]	3742
			03	13	002EA	BEQL	50\$	
	53		55	D0	002EC	MOVL	R5, R3	
	53		55	C2	002EF	SUBL2	R5, R3	
	52		53	D0	002F2	MOVL	R3, STRING_LOCATION	
			DA	13	002F5	BEQL	49\$	3744
04	AA		54	D0	002F7	MOVL	MATCH_SEGMENT, AED_L_LASTLINE	3747
	6A		54	D0	002FB	MOVL	MATCH_SEGMENT, AED_L_FIRSTLINE	
	50		6A	D0	002FE	MOVL	AED_L_FIRSTLINE, R0	3748
0284	CA	08	A0	B0	00301	MOVW	8(R0), AED_W_TOTALSIZE	
	50		6A	D0	00307	MOVL	AED_L_FIRSTLINE, R0	3749
	0F	0A	A0	E8	0030A	BLBS	10(R0), 52\$	
	6A	04	A0	D0	0030E	MOVL	4(R0), AED_L_FIRSTLINE	3752
	50		6A	D0	00312	MOVL	AED_L_FIRSTLINE, R0	3753
0284	CA	08	A0	A0	00315	ADDW2	8(R0), AED_W_TOTALSIZE	
			ED	11	0031B	BRB	51\$	3749
	50	04	AA	D0	0031D	MOVL	AED_L_LASTLINE, R0	3757
04	AA		60	D0	00321	MOVL	(R0), AED_L_LASTLINE	
	50	04	AA	D0	00325	MOVL	AED_L_LASTLINE, R0	3758
0284	CA	08	A0	A0	00329	ADDW2	8(R0), AED_W_TOTALSIZE	
	09	0A	A0	E8	0032F	BLBS	10(R0), 54\$	3760
	51	F0	AA	9E	00333	MOVAB	AED_Q_LINETABLE, R1	3761
	51		50	D1	00337	CMPL	R0, RT	
			E5	12	0033A	BNEQ	53\$	
0284	CA	08	A0	A2	0033C	SUBW2	8(R0), AED_W_TOTALSIZE	3762
04	AA	04	A0	D0	00342	MOVL	4(R0), AED_L_LASTLINE	3763
			54	DD	00347	PUSHL	MATCH_SEGMENT	3764
0000G	CF		01	FB	00349	CALLS	#1, AED_POSITION	
			54	DD	0034E	PUSHL	MATCH_SEGMENT	3765
0000G	CF		01	FB	00350	CALLS	#1, AED_COPSEGMENT	
04	B4	70	AA	0E	00355	INSQUE	AED_T_CURLINE, @4(MATCH_SEGMENT)	3767
	54	08	AA	D1	0035A	CMPL	AED_L_BEGINLINE, MATCH_SEGMENT	3768
			05	12	0035E	BNEQ	55\$	
08	AA	70	AA	9E	00360	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	3769
	54		6A	D1	00365	CMPL	AED_L_FIRSTLINE, MATCH_SEGMENT	3770
			04	12	00368	BNEQ	56\$	
	6A	70	AA	9E	0036A	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	3771

		54	04	AA	D1	0036E	56\$:	CMPL	AED_L_LASTLINE, MATCH_SEGMENT	3772
				05	12	00372		BNEQ	58\$	3773
	04	AA	70	AA	9E	00374	57\$:	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	3774
		50		6A	DO	00379	58\$:	MOVL	AED_L_FIRSTLINE, R0	3775
	FC	AA	0C	A0	DO	0037C		MOVL	12(R0), AED_L_CURACE	3776
53		52		54	C3	00381		SUBL3	MATCH_SEGMENT, STRING_LOCATION, R3	3777
	E8	AB	EC	A3	9E	00385		MOVAB	-20(R3), BUFFER_INDEX	3778
E0	AA	AB		01	81	0038A	59\$:	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	3779
		7E	E0	AA	9A	00390	60\$:	MOVZBL	AED_B_COLUMN, -(SP)	3780
		7E	E4	AA	9A	00394		MOVZBL	AED_B_LINE, -(SP)	3781
	0000G	CF		02	FB	00398		CALLS	#2, AED_SET_CURSOR	3782
				009B	31	0039D		BRW	70\$	3783
		54		6A	D1	003A0	61\$:	CMPL	AED_L_FIRSTLINE, MATCH_SEGMENT	3784
				03	12	003A3		BNEQ	62\$	3785
		58		01	DO	003A5		MOVL	#1, NEW_ACE	3786
		54	04	A4	DO	003AB	62\$:	MOVL	4(MATCH_SEGMENT), MATCH_SEGMENT	3787
		59	08	A4	BO	003AC		MOVW	8(MATCH_SEGMENT), SEARCH_END	3788
				FE59	31	003B0		BRW	34\$	3789
16		AA		03	E1	003B3	63\$:	BBC	#3, AED_L_FLAGS, 64\$	3790
				01	DD	003B8		PUSHL	#1	3791
				15	DD	003BA		PUSHL	#21	3792
	00000000G	00		02	FB	003BC		CALLS	#2, SCR\$ERASE_PAGE	3793
				01	DD	003C3		PUSHL	#1	3794
				15	DD	003C5		PUSHL	#21	3795
	00000000G	00		02	FB	003C7		CALLS	#2, SCR\$SET_CURSOR	3796
				8F	DD	003CE	64\$:	PUSHL	#AED\$_NOTFOUND	3797
	00000000G	00	00000000G	01	FB	003D4		CALLS	#1, LIB\$SIGNAL	3798
OF		AA		03	E1	003DB		BBC	#3, AED_L_FLAGS, 65\$	3799
		7E	E0	AA	9A	003E0		MOVZBL	AED_B_COLUMN, -(SP)	3800
		7E	E4	AA	9A	003E4		MOVZBL	AED_B_LINE, -(SP)	3801
	00000000G	00		02	FB	003E8		CALLS	#2, SCR\$SET_CURSOR	3802
			00000000*	8F	D5	003EF	65\$:	TSTL	#<AED\$_NOTFOUND&7>	3803
				14	13	003F5		BEQL	66\$	3804
00000000*	8F			00	ED	003F7		CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_NOTFOUND&7>	3805
		03		08	18	00401		BGEQ	66\$	3806
				8F	DO	00403		MOVL	#AED\$_NOTFOUND, AED_L_WORSTERR	3807
	D4	AA	00000000G	56	DD	0040B	66\$:	PUSHL	START_SEGMENT	3808
				01	FB	0040D		CALLS	#1, AED_COPY_SEGMENT	3809
	0000G	CF		01	FB	0040D		INSQUE	AED_T_CURLINE, @4(START_SEGMENT)	3810
	04	B6	70	AA	0E	00412		CMPL	AED_L_BEGINLINE, START_SEGMENT	3811
		56	08	AA	D1	00417		BNEQ	67\$	3812
				05	12	0041B		MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	3813
	08	AA	70	AA	9E	0041D		CMPL	AED_L_FIRSTLINE, START_SEGMENT	3814
		56		6A	D1	00422	67\$:	BNEQ	68\$	3815
				04	12	00425		MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	3816
		6A	70	AA	9E	00427		CMPL	AED_L_LASTLINE, START_SEGMENT	3817
		56	04	AA	D1	0042B	68\$:	BNEQ	69\$	3818
				05	12	0042F		MOVAB	AED_T_CURLINE, AED_L_LASTLINE	3819
	04	AA	70	AA	9E	00431		BISB2	#64, AED_L_FLAGS	3820
	C0	AA	40	8F	88	00436	69\$:	BICW2	#8200, AED_L_FLAGS+1	3821
	C1	AA	2008	8F	AA	0043B	70\$:	CLRB	TERM_CHAR	3822
			10	AB	94	00441		MOVL	#1, R0	3823
		50		01	DO	00444		RET		3824
				04	00447					3825

; Routine Size: 1096 bytes, Routine Base: \$CODE\$ + 215F

ACT_ADV_FIELD - advance to the next field

```
3377 3803 1 %SBTTL 'ACT_ADV_FIELD - advance to the next field'
3378 3804 1 ROUTINE ACT_ADV_FIELD =
3379 3805 1
3380 3806 1 ++
3381 3807 1
3382 3808 1 FUNCTIONAL DESCRIPTION:
3383 3809 1
3384 3810 1 This routine moves the cursor to the beginning of the next major
3385 3811 1 field or inserts the text for the first item in the next major
3386 3812 1 field depending on the state of the PROMPT flag. The cursor is
3387 3813 1 left positioned to the end of the selected field.
3388 3814 1
3389 3815 1 CALLING SEQUENCE:
3390 3816 1 ACT_ADV_FIELD ()
3391 3817 1
3392 3818 1 INPUT PARAMETERS:
3393 3819 1 none
3394 3820 1
3395 3821 1 IMPLICIT INPUTS:
3396 3822 1 OWN storage
3397 3823 1
3398 3824 1 OUTPUT PARAMETERS:
3399 3825 1 none
3400 3826 1
3401 3827 1 IMPLICIT OUTPUTS:
3402 3828 1 none
3403 3829 1
3404 3830 1 ROUTINE VALUE:
3405 3831 1 1 if successful
3406 3832 1 error status otherwise
3407 3833 1
3408 3834 1 SIDE EFFECTS:
3409 3835 1 The line segment table is updated as necessary, ACE line pointers
3410 3836 1 are updated, and the object's ACL is updated as necessary.
3411 3837 1
3412 3838 1 --
3413 3839 1
3414 3840 2 BEGIN
3415 3841 2
3416 3842 2 IF .AED_L_FLAGS[AED_V_OPENUIIC]
3417 3843 2 THEN
3418 3844 2 BEGIN
3419 3845 2 AED_L_FLAGS[AED_V_ACERROR] = 1;
3420 3846 2 SIGNAL (AED$ BADUIIC);
3421 3847 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3422 3848 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3423 3849 2 TERM CHAR = 0;
3424 3850 2 RETURN 1;
3425 3851 2 END
3426 3852 2 ELSE
3427 3853 2 BEGIN
3428 3854 2 IF NOT .AED_L_FLAGS[AED_V_NOITEMSEL]
3429 3855 2 THEN
3430 3856 2 BEGIN
3431 3857 2 IF .BUFFER_INDEX GTR 0
3432 3858 2 AND (IF .AED_B_ACETYPE EQL ACESC_DIRDEF
3433 3859 2 THEN .AED_B_FIELD LSS 5
```


ACT_ADV_FIELD - advance to the next field

```
3434 3860 5      ELSE .AED_B_FIELD LSS 6)
3435 3861 4      THEN
3436 3862 3      BEGIN
3437 3863 3      IF .INPUT_BUFFER[.BUFFER_INDEX - 1] EQL '+'
3438 3864 3      THEN INPUT_BUFFER[.BUFFER_INDEX - 1] = ','
3439 3865 3      ELSE
3440 3866 6      BEGIN
3441 3867 6      IF .BUFFER_INDEX GEQ .AED_L_PAGEWIDTH
3442 3868 6      THEN AED_SEGSPLIT (BUFFER_INDEX, 0, 0, 0);
3443 3869 6      INPUT_BUFFER[.BUFFER_INDEX] = ',';
3444 3870 6      ECHO_DESC[DESC$W_LENGTH] = 1;
3445 3871 6      ECHO_DESC[DESC$A_POINTER] = INPUT_BUFFER[.BUFFER_INDEX];
3446 3872 6      AED_PUTOUTPUT (ECHO_DESC);
3447 3873 6      SEGMENT_SIZE = .SEGMENT_SIZE + 1;
3448 3874 6      BUFFER_INDEX = .BUFFER_INDEX + 1;
3449 3875 6      AED_B_COLUMN = .AED_B_COLUMN + 1;
3450 3876 3      END;
3451 3877 3      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3452 3878 3      TERM_CHAR = KEY_C_SEL_FIELD;
3453 3879 3      RETURN 1;
3454 3880 4      END;
3455 3881 3      ELSE
3456 3882 3      BEGIN
3457 3883 4      WHILE .BUFFER_INDEX LSS .SEGMENT_SIZE
3458 3884 4      DO
3459 3885 5      BEGIN
3460 3886 5      AED_SELECTFIELD (BUFFER_INDEX);
3461 3887 5      IF .INPUT_BUFFER[.BUFFER_INDEX] EQL ',' THEN EXITLOOP;
3462 3888 4      END;
3463 3889 4      AED_B_COLUMN = .BUFFER_INDEX + 1;
3464 3890 4      AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
3465 3891 4      END;
3466 3892 3      END;
3467 3893 2      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3468 3894 2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3469 3895 2      TERM_CHAR = 0;
3470 3896 2      RETURN 1;
3471 3897 2
3472 3898 2
3473 3899 1 END;

! End of routine ACT_ADV_FIELD
```

		007C 00000 ACT_ADV_FIELD:			
	56	00000000G	8F	D0	00002
	55	00000000G	00	9E	00009
	54	0000'	CF	9E	00010
	53	0000'	CF	9E	00015
	4D	02	A3	E9	0001A
	63	40	8F	88	0001E
12	63		03	E1	00022
			01	DD	00026
			15	DD	00028
00000000G	00		02	FB	0002A

		.WORD		Save R2,R3,R4,R5,R6	
			MOV		#AED\$ BADUIC, R6
			MOVAB		SCR\$SET_CURSOR, R5
			MOVAB		BUFFER_INDEX, R4
			MOVAB		AED_L_FLAGS, R3
			BLBC		AED_L_FLAGS+2, 4\$
			BISB2		#64, AED_L_FLAGS
			BBC		#3, AED_C_FLAGS, 1\$
			PUSHL		#1
			PUSHL		#21
			CALLS		#2, SCR\$ERASE_PAGE

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00000000*	8F	14	A3	03	00	01	DD	00031	PUSHL	#1			
					65	15	DD	00033	PUSHL	#21			
						02	FB	00035	CALLS	#2, SCR\$SET_CURSOR			
						56	DD	00038	PUSHL	R6			
					00	01	FB	0003A	CALLS	#1, LIB\$SIGNAL			
					63	03	E1	00041	BBC	#3, AED_L_FLAGS, 2\$			
					7E	A3	9A	00045	MOVZBL	AED_B_COLUMN, -(SP)			
					7E	A3	9A	00049	MOVZBL	AED_B_LINE, -(SP)			
					65	02	FB	0004D	CALLS	#2, SCR\$SET_CURSOR			
						8F	D5	00050	TSTL	#<AED\$_BADUIC&7>			
						10	13	00056	BEQL	3\$			
						00	ED	00058	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_BADUIC&7>			
						04	18	00062	BGEQ	3\$			
						56	D0	00064	MOVL	R6, AED_L_WORSTERR			
						009F	31	00068	BRW	13\$		3847	
						03	E0	0006B	BBS	#3, AED_L_FLAGS+2, 10\$		3854	
						64	D0	00070	MOVL	BUFFER_INDEX, R0		3857	
						F3	15	00073	BLEQ	3\$			
						09	C3	91	00075	CMPB	AED_B_ACETYPE, #9	3858	
						07	12	0007A	BNEQ	5\$			
						05	C3	91	0007C	CMPB	AED_B_FIELD, #5	3859	
						05	11	00081	BRB	6\$			
						06	C3	91	00083	CMPB	AED_B_FIELD, #6	3860	
						DE	1E	00088	BGEQU	3\$			
						00C3	C340	91	0008A	CMPB	INPUT_BUFFER-1[R0], #43	3863	
						08	12	00090	BNEQ	7\$			
						2C	90	00092	MOVB	#44, INPUT_BUFFER-1[R0]		3864	
						36	11	00098	BRB	9\$			
						50	D1	0009A	CMPL	R0, AED_L_PAGEWIDTH		3867	
						0B	19	0009E	BLSS	8\$			
						7E	7C	000A0	CLRQ	-(SP)		3868	
						7E	D4	000A2	CLRL	-(SP)			
						54	DD	000A4	PUSHL	R4			
						04	FB	000A6	CALLS	#4, AED_SEGSPLIT			
						00C4	C3	9E	000AB	MOVAB	INPUT_BUFFER, R0	3869	
						2C	90	000B0	MOVB	#44, @BUFFER_INDEX[R0]			
						01	B0	000B5	MOVW	#1, ECHO_DESC		3870	
						00	B440	9E	000B9	MOVAB	@BUFFER_INDEX[R0], ECHO_DESC+4	3871	
						04	A4	9F	000BF	PUSHAB	ECHO_DESC	3872	
						01	FB	000C2	CALLS	#1, AED_PUTOUTPUT			
						00B8	C3	B6	000C7	INCW	SEGMENT_SIZE	3873	
						64	D6	000CB	INCL	BUFFER_INDEX		3874	
						20	A3	96	000CD	INCB	AED_B_COLUMN	3875	
						08	8A	000D0	BICB2	#8, AED_L_FLAGS+1		3877	
						08	90	000D4	MOVB	#8, TERM_CHAR		3878	
						39	11	000D8	BRB	14\$		3879	
						64	D0	000DA	MOVL	BUFFER_INDEX, R2		3884	
						00	ED	000DD	CMPZV	#0, #16, SEGMENT_SIZE, R2			
						12	15	000E4	BLEQ	12\$			
						54	DD	000E6	PUSHL	R4		3887	
						01	FB	000E8	CALLS	#1, AED_SELECTFIELD			
						64	D0	000ED	MOVL	BUFFER_INDEX, R2		3888	
						00C4	C342	91	000F0	CMPB	INPUT_BUFFER[R2], #44		
						E5	12	000F6	BNEQ	11\$			
						01	81	000F8	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN		3890	
						7E	A3	9A	000FD	MOVZBL	AED_B_COLUMN, -(SP)	3891	
						7E	A3	9A	00101	MOVZBL	AED_B_LINE, -(SP)		

ACT_ADV_FIELD - advance to the next field

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0000G	CF		02	FB 00105		CALLS	#2, AED SET CURSOR
01	A3	2008	8F	AA 0010A	13\$:	BICW2	#8200, AED_C_FLAGS+1
		28	A4	94 00110		CLRB	TERM CHAR
50			01	D0 00113	14\$:	MOVL	#1, R0
			04	00116		RET	

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; Routine Size: 279 bytes, Routine Base: \$CODE\$ + 25A7

**AED
V04**

.....

ACT_SEL_FIELD - select the next field

```
3475 3900 1 %SBTTL 'ACT_SEL_FIELD - select the next field'
3476 3901 1 ROUTINE ACT_SEL_FIELD =
3477 3902 1
3478 3903 1 ++
3479 3904 1
3480 3905 1 FUNCTIONAL DESCRIPTION:
3481 3906 1
3482 3907 1 This routine moves the cursor to the beginning of the next field or
3483 3908 1 inserts the text for the first item in the next field depending on
3484 3909 1 the state of the PROMPT flag. The cursor is left positioned to the
3485 3910 1 end of the selected field.
3486 3911 1
3487 3912 1 CALLING SEQUENCE:
3488 3913 1 ACT_SEL_FIELD ()
3489 3914 1
3490 3915 1 INPUT PARAMETERS:
3491 3916 1 none
3492 3917 1
3493 3918 1 IMPLICIT INPUTS:
3494 3919 1 OWN storage
3495 3920 1
3496 3921 1 OUTPUT PARAMETERS:
3497 3922 1 none
3498 3923 1
3499 3924 1 IMPLICIT OUTPUTS:
3500 3925 1 none
3501 3926 1
3502 3927 1 ROUTINE VALUE:
3503 3928 1 1 if successful
3504 3929 1 error status otherwise
3505 3930 1
3506 3931 1 SIDE EFFECTS:
3507 3932 1 The line segment table is updated as necessary, ACE line pointers
3508 3933 1 are updated, and the object's ACL is updated as necessary.
3509 3934 1
3510 3935 1 --
3511 3936 1
3512 3937 2 BEGIN
3513 3938 2
3514 3939 2 IF .AED_L_FLAGS[AED_V_OPENUIIC]
3515 3940 2 THEN
3516 3941 2 BEGIN
3517 3942 2 AED_L_FLAGS[AED_V_ACERROR] = 1;
3518 3943 2 SIGNAL (AED$ BADUIIC);
3519 3944 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3520 3945 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3521 3946 2 TERM_CHAR = 0;
3522 3947 2 RETURN 1;
3523 3948 2 END
3524 3949 2 ELSE
3525 3950 2 BEGIN
3526 3951 2 IF .BUFFER_INDEX LSS .SEGMENT_SIZE
3527 3952 2 OR NOT .AED_L_FLAGS[AED_V_NOITEMSEL]
3528 3953 2 THEN
3529 3954 2 BEGIN
3530 3955 2 AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
3531 3956 2 AED_SELECTFIELD(BUFFER_INDEX);
```


ACT_SEL_FIELD - select the next field

```
3532 3957 4 IF NOT .AED_L_FLAGS[AED_V_NOITEMSEL]
3533 3958 4 THEN
3534 3959 5 BEGIN
3535 3960 5 ECHO_DESC[DSC$W_LENGTH] = .AED_T_CURLINE[LINE_W_SIZE];
3536 3961 5 ECHO_DESC[DSC$A_POINTER] = AED_T_CURLINE[LINE_T_TEXT];
3537 3962 5 SCR$SET_CURSOR (.AED_B_LINE, 1);
3538 3963 5 AED_PUTOUTPUT (ECHO_DESC);
3539 3964 5 SCR$ERASE_LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
3540 3965 4 END;
3541 3966 4 AED_B_COLUMN = .BUFFER_INDEX + 1;
3542 3967 4 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
3543 3968 4 END;
3544 3969 5 END;
3545 3970 5 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3546 3971 5 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3547 3972 2 TERM_CHAR = 0;
3548 3973 2 RETURN 1;
3549 3974 2
3550 3975 1 END;
```

! End of routine ACT_SEL_FIELD

				003C 00000 ACT_SEL_FIELD:					
			55	00000000G	8F	D0	00002	Save R2,R3,R4,R5	3901
			54	00000000G	00	9E	00009	MOVL #AED\$_BADUIC, R5	
			53	0000'	CF	9E	00010	MOVAB SCR\$SET_CURSOR, R4	
			52	0000'	CF	9E	00015	MOVAB BUFFER_INDEX, R3	
			4C	02	A2	E9	0001A	MOVAB AED_L_FLAGS, R2	
			62	40	8F	88	0001E	BLBC AED_L_FLAGS+2, 3\$	3939
	12		62		03	E1	00022	BISB2 #64, AED_L_FLAGS	3942
					01	DD	00026	BBC #3, AED_L_FLAGS, 1\$	3943
					15	DD	00028	PUSHL #1	
		00000000G	00		02	FB	0002A	PUSHL #21	
					01	DD	00031	CALLS #2, SCR\$ERASE_PAGE	
					15	DD	00033	PUSHL #1	
			64		02	FB	00035	PUSHL #21	
					55	DD	00038	CALLS #2, SCR\$SET_CURSOR	
		00000000G	00		01	FB	0003A	PUSHL R5	
	0B		62		03	E1	00041	CALLS #1, LIB\$SIGNAL	
			7E	20	A2	9A	00045	BBC #3, AED_L_FLAGS, 2\$	
			7E	24	A2	9A	00049	MOVZBL AED_B_COLUMN, -(SP)	
			64		02	FB	0004D	MOVZBL AED_B_LINE, -(SP)	
				00000000*	8F	D5	00050	CALLS #2, SCR\$SET_CURSOR	
					71	13	00056	TSTL #<AED\$_BADUIC&7>	
00000000*	8F	14	A2		00	ED	00058	BEQL 6\$	
					65	18	00062	CMPZV #0, #3, AED_L_WORSTERR, #<AED\$_BADUIC&7>	
			14	A2	55	D0	00064	BGEQ 6\$	
					5F	11	00068	MOVL R5, AED_L_WORSTERR	
	63	00B8	C2	10	00	ED	0006A	BRB 6\$	3944
					05	14	00071	CMPZV #0, #16, SEGMENT_SIZE, BUFFER_INDEX	3951
			51	02	A2	E0	00073	BGTR 4\$	
				01	A2	10	8A	BBS #3, AED_L_FLAGS+2, 6\$	3952
					53	DD	0007C	BICB2 #16, AED_L_FLAGS+1	3955
				0000G	CF	01	FB	PUSHL R3	3956
								CALLS #1, AED_SELECTFIELD	

AED\$MAIN
V04-000

ACT_SEL_FIELD - select the next field

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2F	02	A2	03	E0	00083	BBS	#3, AED_L_FLAGS+2, 5\$...	3957
	04	A3	C2	B0	00088	MOVW	AED_T_CURLINE+8, ECHO_DESC	...	3960
	08	A3	C2	9E	0008E	MOVAB	AED_T_CURLINE+20, ECHO_DESC+4	...	3961
			01	DD	00094	PUSHL	#1	...	3962
		7E	A2	9A	00096	MOVZBL	AED_B_LINE, -(SP)	...	
		64	02	FB	0009A	CALLS	#2, SCR\$SET_CURSOR	...	
			A3	9F	0009D	PUSHAB	ECHO_DESC	...	3963
	0000G	CF	01	FB	000A0	CALLS	#1, AED_PUTOUTPUT	...	
		7E	C2	3C	000A5	MOVZWL	SEGMENT_SIZE, -(SP)	...	3964
			6E	D6	000AA	INCL	(SP)	...	
		7E	A2	9A	000AC	MOVZBL	AED_B_LINE, -(SP)	...	
	00000000G	00	02	FB	000B0	CALLS	#2, SCR\$ERASE_LINE	...	
20	A2	63	01	81	000B7	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	...	3966
		7E	A2	9A	000BC	MOVZBL	AED_B_COLUMN, -(SP)	...	3967
		7E	A2	9A	000C0	MOVZBL	AED_B_LINE, -(SP)	...	
	0000G	CF	02	FB	000C4	CALLS	#2, AED_SET_CURSOR	...	
	01	A2	8F	AA	000C9	BICW2	#8200, AED_L_FLAGS+1	...	3971
			A3	94	000CF	CLRB	TERM_CHAR	...	3972
		50	01	D0	000D2	MOVL	#1, R0	...	3973
			04	000D5	RET			...	3975

; Routine Size: 214 bytes, Routine Base: \$CODE\$ + 26BE

ACT_SEL_ITEM - select the next item

```
3552 3976 1 %SBTTL 'ACT_SEL_ITEM - select the next item'
3553 3977 1 ROUTINE ACT_SEL_ITEM =
3554 3978 1
3555 3979 1 ++
3556 3980 1
3557 3981 1 FUNCTIONAL DESCRIPTION:
3558 3982 1
3559 3983 1 This routine selects the next item based upon the selected field.
3560 3984 1 The cursor is left positioned at the end of the selected item. This
3561 3985 1 is only valid for an ACE being entered in PROMPT mode.
3562 3986 1
3563 3987 1 CALLING SEQUENCE:
3564 3988 1 ACT_SEL_ITEM ()
3565 3989 1
3566 3990 1 INPUT PARAMETERS:
3567 3991 1 none
3568 3992 1
3569 3993 1 IMPLICIT INPUTS:
3570 3994 1 OWN storage
3571 3995 1
3572 3996 1 OUTPUT PARAMETERS:
3573 3997 1 none
3574 3998 1
3575 3999 1 IMPLICIT OUTPUTS:
3576 4000 1 none
3577 4001 1
3578 4002 1 ROUTINE VALUE:
3579 4003 1 1 if successful
3580 4004 1 error status otherwise
3581 4005 1
3582 4006 1 SIDE EFFECTS:
3583 4007 1 The line segment table is updated as necessary, ACE line pointers
3584 4008 1 are updated, and the object's ACL is updated as necessary.
3585 4009 1
3586 4010 1 --
3587 4011 1
3588 4012 2 BEGIN
3589 4013 2
3590 4014 2 ! Clear all key indicators in case an error is seen.
3591 4015 2
3592 4016 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3593 4017 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3594 4018 2 TERM_CHAR = 0;
3595 4019 2
3596 4020 2 ! Check to see if item selection is allowed.
3597 4021 2
3598 4022 2 IF NOT .AED_L_FLAGS[AED_V_PROMPT] OR NOT .AED_L_FLAGS[AED_V_INSERTTEXT]
3599 4023 2 THEN
3600 4024 2 BEGIN
3601 4025 2 AED_L_FLAGS[AED_V_ACERROR] = 1;
3602 4026 2 SIGNAL (AED$_NOTITEMSEL);
3603 4027 2 RETURN 1;
3604 4028 2 END;
3605 4029 2
3606 4030 2 IF .AED_L_FLAGS[AED_V_OPENUIC]
3607 4031 2 THEN
3608 4032 2 BEGIN
```



```
ACT_SEL_ITEM - select the next item

: 3609      4033 3  AED_L_FLAGS[AED_V_ACERROR] = 1;
: 3610      4034 3  SIGNAL (AED$_BADUI);
: 3611      4035 3  RETURN 1;
: 3612      4036 3  END;
: 3613      4037 3
: 3614      4038 2  ! No error conditions have been found, select the next item.
: 3615      4039 2
: 3616      4040 2  AED_L_FLAGS[AED_V_FIRSTCHAR] = 0;
: 3617      4041 2  AED_SELECTITEM (BUFFER_INDEX);
: 3618      4042 2  ECHO_DESC[DSC$W_LENGTH] = .AED_T_CURLINE[LINE_W_SIZE];
: 3619      4043 2  ECHO_DESC[DSC$A_POINTER] = AED_T_CURLINE[LINE_T_TEXT];
: 3620      4044 2  SCR$SET_CURSOR (.AED_B_LINE, 1);
: 3621      4045 2  AED_PUTOUTPUT (ECHO_DESC);
: 3622      4046 2  SCR$ERASE_LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
: 3623      4047 2  AED_B_COLUMN = .BUFFER_INDEX + 1;
: 3624      4048 2  AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 3625      4049 2
: 3626      4050 2  RETURN 1;
: 3627      4051 2
: 3628      4052 1  END;

! End of routine ACT_SEL_ITEM
```

				01FC 00000 ACT_SEL_ITEM:						
			58	00000000G	8F	D0	00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8	3977
			57	00000000G	00	9E	00009	MOVL	#AED\$_BADUI, R8	
			56	00000000G	8F	D0	00010	MOVAB	LIB\$SIGNAL, R7	
			55	00000000G	00	9E	00017	MOVL	#AED\$_NOITEMSEL, R6	
			54	0000'0000	CF	9E	0001E	MOVAB	SCR\$ERASE_PAGE, R5	
			53	00000000G	00	9E	00023	MOVAB	BUFFER_INDEX, R4	
			52	0000'0000	CF	9E	0002A	MOVAB	SCR\$SET_CURSOR, R3	
	01	A2	2008		8F	AA	0002F	MOVAB	AED_L_FLAGS, R2	4017
			28		A4	94	00035	BICW2	#8200, AED_L_FLAGS+1	4018
			01		A2	95	00038	CLRB	TERM_CHAR	4022
					05	18	0003B	TSTB	AED_C_FLAGS+1	
	44	01	A2		06	E0	0003D	BGEQ	1\$	
			62	40	0F	88	00042	BBS	#6, AED_L_FLAGS+1, 4\$	
	0E		62		03	E1	00046	BISB2	#64, AED_C_FLAGS	4025
					01	DD	0004A	BBC	#3, AED_C_FLAGS, 2\$	4026
					15	DD	0004C	PUSHL	#1	
			65		02	FB	0004E	PUSHL	#21	
					01	DD	00051	CALLS	#2, SCR\$ERASE_PAGE	
					15	DD	00053	PUSHL	#1	
			63		02	FB	00055	PUSHL	#21	
					56	DD	00058	CALLS	#2, SCR\$SET_CURSOR	
			67		01	FB	0005A	PUSHL	R6	
	0B		62		03	E1	0005D	CALLS	#1, LIB\$SIGNAL	
			7E	20	A2	9A	00061	BBC	#3, AED_L_FLAGS, 3\$	
			7E	24	A2	9A	00065	MOVZBL	AED_B_COLUMN, -(SP)	
			63		02	FB	00069	MOVZBL	AED_B_LINE, -(SP)	
				00000000*	8F	D5	0006C	CALLS	#2, SCR\$SET_CURSOR	
					58	13	00072	TSTL	#<AED\$_NOITEMSEL&7>	
00000000*	8F	14	A2	03	00	ED	00074	BEQ	7\$	
					4C	18	0007E	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_NOITEMSEL&7>	
								BGEQ	7\$	

		14	A2		56	D0	00080	MOVL	R6, AED_L_WORSTERR		
					46	11	00084	BRB	7\$		4027
		44		02	A2	E9	00086	BLBC	AED_L_FLAGS+2, 8\$		4030
		62		40	8F	88	0008A	BISB2	#64, AED_L_FLAGS		4033
OE		62			03	E1	0008E	BBC	#3, AED_C_FLAGS, 5\$		4034
					01	DD	00092	PUSHL	#1		
					15	DD	00094	PUSHL	#21		
		65			02	FB	00096	CALLS	#2, SCR\$ERASE_PAGE		
					01	DD	00099	PUSHL	#1		
					15	DD	0009B	PUSHL	#21		
		63			02	FB	0009D	CALLS	#2, SCR\$SET_CURSOR		
					58	DD	000A0	PUSHL	R8		
OB		67			01	FB	000A2	CALLS	#1, LIB\$SIGNAL		
		62			03	E1	000A5	BBC	#3, AED_L_FLAGS, 6\$		
		7E		20	A2	9A	000A9	MOVZBL	AED_B_COLUMN, -(SP)		
		7E		24	A2	9A	000AD	MOVZBL	AED_B_LINE, -(SP)		
		63			02	FB	000B1	CALLS	#2, SCR\$SET_CURSOR		
				00000000*	8F	D5	000B4	TSTL	#<AED\$_BADUIC&7>		
					5E	13	000BA	BEQL	9\$		
00000000*	8F	14	A2		00	ED	000BC	CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_BADUIC&7>		
					52	18	000C6	BGEQ	9\$		
		14	A2		58	D0	000C8	MOVL	R8, AED_L_WORSTERR		
					4C	11	000CC	BRB	9\$		4035
		01	A2		10	8A	000CE	BICB2	#16, AED_L_FLAGS+1		4040
					54	DD	000D2	PUSHL	R4		4041
		0000G	CF		01	FB	000D4	CALLS	#1, AED_SELECTITEM		
		04	A4	00B8	C2	B0	000D9	MOVW	AED_T_CURLINE+8, ECHO_DESC		4042
		08	A4	00C4	C2	9E	000DF	MOVAB	AED_T_CURLINE+20, ECHO_DESC+4		4043
					01	DD	000E5	PUSHL	#1		4044
		7E		24	A2	9A	000E7	MOVZBL	AED_B_LINE, -(SP)		
		63			02	FB	000EB	CALLS	#2, SCR\$SET_CURSOR		
				04	A4	9F	000EE	PUSHAB	ECHO_DESC		4045
		0000G	CF		01	FB	000F1	CALLS	#1, AED_PUTOUTPUT		
		7E		00B8	C2	3C	000F6	MOVZWL	SEGMENT_SIZE, -(SP)		4046
					6E	D6	000FB	INCL	(SP)		
		7E		24	A2	9A	000FD	MOVZBL	AED_B_LINE, -(SP)		
		00000000G	00		02	FB	00101	CALLS	#2, SCR\$ERASE_LINE		
20	A2		64		01	81	00108	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN		4047
			7E		A2	9A	0010D	MOVZBL	AED_B_COLUMN, -(SP)		4048
			7E		A2	9A	00111	MOVZBL	AED_B_LINE, -(SP)		
		0000G	CF		02	FB	00115	CALLS	#2, AED_SET_CURSOR		
			50		01	D0	0011A	MOVL	#1, R0		4050
					04	00	0011D	RET			4052

; Routine Size: 286 bytes, Routine Base: \$CODE\$ + 2794

ACT_HELP - provide interactive help

```
: 3630 4053 1 %SBTTL 'ACT_HELP - provide interactive help'
: 3631 4054 1 ROUTINE ACT_HELP =
: 3632 4055 1
: 3633 4056 1 ++
: 3634 4057 1
: 3635 4058 1 FUNCTIONAL DESCRIPTION:
: 3636 4059 1
: 3637 4060 1 This routine supplies the interactive help to the user.
: 3638 4061 1
: 3639 4062 1 CALLING SEQUENCE:
: 3640 4063 1 ACT_HELP ()
: 3641 4064 1
: 3642 4065 1 INPUT PARAMETERS:
: 3643 4066 1 none
: 3644 4067 1
: 3645 4068 1 IMPLICIT INPUTS:
: 3646 4069 1 OWN storage
: 3647 4070 1
: 3648 4071 1 OUTPUT PARAMETERS:
: 3649 4072 1 none
: 3650 4073 1
: 3651 4074 1 IMPLICIT OUTPUTS:
: 3652 4075 1 none
: 3653 4076 1
: 3654 4077 1 ROUTINE VALUE:
: 3655 4078 1 1 if successful
: 3656 4079 1 error status otherwise
: 3657 4080 1
: 3658 4081 1 SIDE EFFECTS:
: 3659 4082 1 The line segment table is updated as necessary, ACE line pointers
: 3660 4083 1 are updated, and the object's ACL is updated as necessary.
: 3661 4084 1
: 3662 4085 1 --
: 3663 4086 1
: 3664 4087 2 BEGIN
: 3665 4088 2
: 3666 4089 2 SCR$SET_SCROLL (1, 24);
: 3667 4090 2 AED_GIVEHELP ();
: 3668 4091 2 ACT_REFRESH (0); ! Refresh the screen
: 3669 4092 2 RETURN 1;
: 3670 4093 2
: 3671 4094 1 END; ! End of routine ACT_HELP
```

		0000 00000 ACT_HELP:			
		18 DD 00002	.WORD	Save nothing	: 4054
		01 DD 00004	PUSHL	#24	: 4089
		02 FB 00006	PUSHL	#1	:
00000000G	00	00 FB 0000D	CALLS	#2, SCR\$SET_SCROLL	:
0000G	CF	7E D4 00012	CALLS	#0, AED_GIVEHELP	: 4090
		01 FB 00014	CLRL	-(SP)	: 4091
0000V	CF	01 FB 00019	CALLS	#1, ACT_REFRESH	:
	50	04 D0 0001C	MOVL	#1, R0	: 4092
			RET		: 4094

AED\$MAIN
V04-000

ACT_HELP - provide interactive help

E 4
15-Sep-1984 23:47:14
14-Sep-1984 11:52:29

VAX-11 Bliss-32 V4.0-742
[ACLEDT.SRC]AEDMAIN.B32;1

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; Routine Size: 29 bytes, Routine Base: \$CODE\$ + 28B2

ACT_REFRESH - refresh the display

```
3673 4095 1 %SBTTL 'ACT_REFRESH - refresh the display'
3674 4096 1 ROUTINE ACT_REFRESH (RESET) =
3675 4097 1
3676 4098 1 ++
3677 4099 1
3678 4100 1 FUNCTIONAL DESCRIPTION:
3679 4101 1
3680 4102 1 This routine clears the screen and repaints the display to eliminate
3681 4103 1 any extraneous garbage that may have appeared on the screen.
3682 4104 1
3683 4105 1 CALLING SEQUENCE:
3684 4106 1 ACT_REFRESH (ARG1)
3685 4107 1
3686 4108 1 INPUT PARAMETERS:
3687 4109 1 ARG1: 1 = reinitialize display from object's original ACL
3688 4110 1 0 = reinitialize display from in core copy of object's ACL
3689 4111 1
3690 4112 1 IMPLICIT INPUTS:
3691 4113 1 OWN storage
3692 4114 1
3693 4115 1 OUTPUT PARAMETERS:
3694 4116 1 none
3695 4117 1
3696 4118 1 IMPLICIT OUTPUTS:
3697 4119 1 none
3698 4120 1
3699 4121 1 ROUTINE VALUE:
3700 4122 1 1 if successful
3701 4123 1 error status otherwise
3702 4124 1
3703 4125 1 SIDE EFFECTS:
3704 4126 1 The line segment table is updated as necessary, ACE line pointers
3705 4127 1 are updated, and the object's ACL is updated as necessary.
3706 4128 1
3707 4129 1 --
3708 4130 1
3709 4131 2 BEGIN
3710 4132 2
3711 4133 2 LOCAL
3712 4134 2 CURRENT_LINE : REF $BLOCK, ! Address of current line segment
3713 4135 2 ATR_ARGLIST : BLOCKVECTOR [2, ITMSS-ITEM, BYTE], ! ACL attribute descriptor
3714 4136 2 ACL_CONTEXT, ! ACL context for $CHANGE_ACL
3715 4137 2 ACE_POINTER : REF $BLOCK, ! Address of current ACE
3716 4138 2 ACE_NEWADDR : REF $BLOCK, ! Copy of current ACE
3717 4139 2 ACE_DESC : $BLOCK [DSC$C-S-BLN], ! Binary ACE descr
3718 4140 2 ACE_TEXT_DESC : $BLOCK [DSC$C-S-BLN], ! Text ACE descriptor
3719 4141 2 ACE_TEXT : $BLOCK [3072], ! ACE text storage
3720 4142 2 ACE_TEXT_SIZE, ! ACE text size
3721 4143 2 FIRST_CHAR, ! Addr of first char in segment
3722 4144 2 LAST_CHAR, ! Addr of last char in segment
3723 4145 2 NEW_TEXT_LINE : REF $BLOCK, ! Converted line storage addr
3724 4146 2 LINE_SEG_SIZE; ! Size of line segment
3725 4147 2
3726 4148 2 ! If this is a reset operation, deallocate all the in core ACL information
3727 4149 2 ! and rebuild it from the object's actual ACL.
3728 4150 2
3729 4151 2 IF .RESET
```



```
3730 4152 2 THEN
3731 4153 BEGIN
3732 4154 CH$FILL (0, 2*ITM$S_ITEM, ATR_ARGLIST);
3733 4155
3734 4156 ! Go through the line segment table and deallocate all the old segments.
3735 4157 ! In addition, get rid of the copies of the binary ACEs.
3736 4158
3737 4159 UNTIL REMQUE (.AED_Q_LINETABLE[LINE_L_FLINK], CURRENT_LINE)
3738 4160 DO
3739 4161 BEGIN
3740 4162 IF .CURRENT_LINE[LINE_V_BEGINACE]
3741 4163 THEN IF .CURRENT_LINE[LINE_L_BINACE] NEQ 0
3742 4164 THEN DEALLOCATE (.$BBLOCK[.CURRENT_LINE[LINE_L_BINACE], ACESB_SIZE],
P 4165 CURRENT_LINE[LINE_L_BINACE]);
3743 4166 DEALLOCATE (.CURRENT_LINE[LINE_W_SIZE] + $BYTEOFFSET (LINE_T_TEXT),
P 4167 CURRENT_LINE);
3744 4168 END;
3745 4169
3746 4170 ! Allocate storage for the temporary ACL segment buffer.
3747 4171
3748 4172 AED_L_STATUS = ALLOCATE (512, AED_A_ACLBUFFER);
3749 4173 IF NOT .AED_L_STATUS
3750 4174 THEN
3751 4175 BEGIN
3752 4176 SIGNAL (.AED_L_STATUS);
3753 4177 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3754 4178 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3755 4179 TERM CHAR = 0;
3756 4180 RETURN .AED_L_WORSTERR OR STS$M_INHIB_MSG;
3757 4181 END;
3758 4182
3759 4183 ! Re-read any ACL associated with the object.
3760 4184
3761 4185 ACL_CONTEXT = 0;
3762 4186 ATR_ARGLIST[0, ITM$W_ITMCO] = ACL$C_READACL;
3763 4187 ATR_ARGLIST[0, ITM$W_BUFSIZ] = 512;
3764 4188 ATR_ARGLIST[0, ITM$W_BUFADR] = .AED_A_ACLBUFFER;
3765 4189 WHILE 1
3766 4190 DO
3767 4191 BEGIN
3768 4192 AED_L_STATUS = $CHANGE_ACL (CHAN = .AED_W_OBJCHAN,
P 4193 OBJTYP = AED_C_OBJTYP,
P 4194 OBJNAM = AED_Q_OBJNAM,
P 4195 ITMLST = ATR_ARGLIST,
4196 CONXT = ACL_CONTEXT);
3770 4197 IF NOT .AED_L_STATUS
3771 4198 THEN
3772 4199 BEGIN
3773 4200 IF .AED_L_STATUS EQL SSS_ACLEMPY
3774 4201 OR .AED_L_STATUS EQL SSS_NOMOREACE
3775 4202 THEN EXIT[COOP];
3776 4203 SIGNAL (AED$ READERR, 1, AED_Q_OBJNAM, .AED_L_STATUS, 0);
3777 4204 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3778 4205 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3779 4206 TERM CHAR = 0;
3780 4207 RETURN .AED_L_WORSTERR OR STS$M_INHIB_MSG;
3781 4208 END;
```



```

3787 4209 4 ACE_POINTER = .AED_A_ACLBUFFER;
3788 4210 4 UNTIL .ACE_POINTER GEQA .AED_A_ACLBUFFER + 512
3789 4211 4 DO
3790 4212 5 BEGIN
3791 4213 5 IF .ACE_POINTER[ACESB_SIZE] EQL 0 THEN EXITLOOP;
3792 4214 5 AED_L_STATUS = ALLOCATE (.ACE_POINTER[ACESB_SIZE], ACE_NEWADDR);
3793 4215 5 IF NOT .AED_L_STATUS
3794 4216 5 THEN
3795 4217 6 BEGIN
3796 4218 6 SIGNAL (.AED_L_STATUS);
3797 4219 6 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3798 4220 6 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3799 4221 6 TERM_CHAR = 0;
3800 4222 6 RETURN .AED_L_WORSTERR OR ST$M_INHIB_MSG;
3801 4223 5 END;
3802 4224 5 CH$MOVE (.ACE_POINTER[ACESB_SIZE], .ACE_POINTER, .ACE_NEWADDR);
3803 4225 5 ACE_DESC[DSC$A_POINTER] = .ACE_POINTER;
3804 4226 5 ACE_DESC[DSC$W_LENGTH] = .ACE_POINTER[ACESB_SIZE];
3805 4227 5 ACE_TEXT_DESC[DSC$A_POINTER] = ACE_TEXT;
3806 4228 5 ACE_TEXT_DESC[DSC$W_LENGTH] = 3072;
3807 4229 5 AED_L_STATUS = $FORMAT_ACL (ACLEN = ACE_DESC,
3808 4230 5 ACLEN = ACE_TEXT_DESC,
3809 4231 5 ACLSTR = ACE_TEXT_DESC,
3810 4232 5 WIDTH = AED [PAGEWIDTH,
3811 4233 5 TRMDSC = $DESCRIPTOR (0),
3812 4234 5 INDENT = 0);
3813 4235 5 ACE_TEXT_SIZE = .ACE_TEXT_DESC[DSC$W_LENGTH];
3814 4236 5 FIRST_CHAR = ACE_TEXT;
3815 4237 5 AED_L_FIRSTLINE = AED_L_LASTLINE = 0;
3816 4238 5 WHILE (LAST_CHAR = CH$FIND_CH (.ACE_TEXT_SIZE, .FIRST_CHAR, 0)) GTR 0
3817 4239 5 DO
3818 4240 6 BEGIN
3819 4241 6 LINE_SEG_SIZE = .LAST_CHAR - .FIRST_CHAR;
3820 4242 6 AED_L_STATUS = ALLOCATE (.LINE_SEG_SIZE + $BYTEOFFSET (LINE_T_TEXT),
3821 4243 6 NEW_TEXT_LINE);
3822 4244 6 IF NOT .AED_L_STATUS
3823 4245 6 THEN
3824 4246 7 BEGIN
3825 4247 7 SIGNAL (.AED_L_STATUS);
3826 4248 7 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3827 4249 7 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3828 4250 7 TERM_CHAR = 0;
3829 4251 7 RETURN .AED_L_WORSTERR OR ST$M_INHIB_MSG;
3830 4252 6 END;
3831 4253 6 NEW_TEXT_LINE[LINE_W_SIZE] = .LINE_SEG_SIZE;
3832 4254 6 NEW_TEXT_LINE[LINE_L_BINACE] = .ACE_NEWADDR;
3833 4255 6 CH$MOVE (.ACE_TEXT_SIZE, .FIRST_CHAR, NEW_TEXT_LINE[LINE_T_TEXT]);
3834 4256 6 INSQUE (.NEW_TEXT_LINE, .AED_Q [IN$TABLE [LINE [BLINK]]);
3835 4257 6 IF .AED_L_FIRSTLINE EQL 0 THEN AED_L_FIRSTLINE = .NEW_TEXT_LINE;
3836 4258 6 AED_L_LASTLINE = .NEW_TEXT_LINE;
3837 4259 6 FIRST_CHAR = .LAST_CHAR + 1;
3838 4260 6 ACE_TEXT_SIZE = .ACE_TEXT_SIZE - .LINE_SEG_SIZE - 1;
3839 4261 5 END;
3840 4262 5 IF .ACE_TEXT_SIZE GTR 0
3841 4263 5 THEN
3842 4264 6 BEGIN
3843 4265 6 AED_L_STATUS = ALLOCATE (.ACE_TEXT_SIZE + $BYTEOFFSET (LINE_T_TEXT),
```



```

3844 4266 6 NEW_TEXT_LINE);
3845 4267 6 IF NOT .AED_L_STATUS
3846 4268 6 THEN
3847 4269 7 BEGIN
3848 4270 7 SIGNAL (.AED_L_STATUS);
3849 4271 7 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
3850 4272 7 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3851 4273 7 TERM_CHAR = 0;
3852 4274 7 RETURN .AED_L_WORSTERR OR ST$M_INHIB_MSG;
3853 4275 6 END;
3854 4276 6 NEW_TEXT_LINE[LINE_W_SIZE] = .ACE_TEXT_SIZE;
3855 4277 6 NEW_TEXT_LINE[LINE_L_BINACE] = .ACE_NEWADDR;
3856 4278 6 CH$MOVE (.ACE_TEXT_SIZE, .FIRST_CHAR, NEW_TEXT_LINE[LINE_T_TEXT]);
3857 4279 6 INSQUE (.NEW_TEXT_LINE, .AED_Q_LINETABLE[LINE_L_BLINK]);
3858 4280 6 IF .AED_L_FIRSTLINE EQL 0 THEN .AED_L_FIRSTLINE = .NEW_TEXT_LINE;
3859 4281 6 AED_L_LASTLINE = .NEW_TEXT_LINE;
3860 4282 5 END;
3861 4283 5 AED_L_FIRSTLINE[LINE_V_BEGINACE] = 1;
3862 4284 5 IF .ACE_POINTER[ACES$HIDDEN]
3863 4285 6 OR (.ACE_POINTER[ACES$B_TYPE] NEQ ACESC_KEYID
3864 4286 6 AND .ACE_POINTER[ACES$B_TYPE] NEQ ACESC_BIJNL
3865 4287 6 AND .ACE_POINTER[ACES$B_TYPE] NEQ ACESC_AIJNL
3866 4288 6 AND .ACE_POINTER[ACES$B_TYPE] NEQ ACESC_ATJNL
3867 4289 6 AND .ACE_POINTER[ACES$B_TYPE] NEQ ACESC_AUDIT
3868 4290 6 AND .ACE_POINTER[ACES$B_TYPE] NEQ ACESC_ALARM
3869 4291 6 AND .ACE_POINTER[ACES$B_TYPE] NEQ ACESC_DIRDEF)
3870 4292 5 THEN AED_L_FIRSTLINE[LINE_V_NOTOUCH] = 1;
3871 4293 5 AED_L_LAST[LINE_V_ENDACE] = 1;
3872 4294 5 ACE_POINTER = .ACE_POINTER + .ACE_POINTER[ACES$B_SIZE];
3873 4295 4 END;
3874 4296 3 END;
3875 4297 3 DEALLOCATE (512, AED_A_ACLBUFFER);
3876 4298 3
3877 4299 3 ! If there is no ACL (the display is empty), set up to append the text
3878 4300 3 ! entered. Otherwise, set up to modify the first segment of the display.
3879 4301 3
3880 4302 3 IF .AED_Q_LINETABLE[LINE_L_FLINK] EQLA AED_Q_LINETABLE[LINE_L_FLINK]
3881 4303 3 THEN
3882 4304 4 BEGIN
3883 4305 4 AED_L_FLAGS[AED_V_ENDACL] = 1; ! At the end of the ACL
3884 4306 4 AED_L_FLAGS[AED_V_INSERTTEXT] = 1;
3885 4307 4 AED_W_TOTALSIZE = SEGMENT_SIZE = 0;
3886 4308 4 INSQUE (AED_T_CURLINE[LINE_L_FLINK], .AED_Q_LINETABLE[LINE_L_BLINK]);
3887 4309 4 AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
3888 4310 4 AED_L_FIRSTLINE[LINE_Q_FLAGS] = LINE_M_BEGINACE;
3889 4311 4 AED_L_CURACE = 0;
3890 4312 4 IF .AED_L_FLAGS[AED_V_PROMPT]
3891 4313 4 THEN
3892 4314 5 BEGIN
3893 4315 5 AED_B_ACETYPE = 0;
3894 4316 5 AED_L_FLAGS[AED_V_NOITEMSEL] = 0;
3895 4317 5 AED_SELECTFIELD (BUFFER_INDEX);
3896 4318 5 AED_B_COLUMN = .BUFFER_INDEX + 1;
3897 4319 4 END;
3898 4320 4 END
3899 4321 3 ELSE
3900 4322 4 BEGIN
```



```
3901 4323 4 AED COPSEGMENT (.AED_Q_LINETABLE[LINE_L_FLINK]);
3902 4324 4 INSQUE (AED_T_CURLINE[LINE_L_FLINK], AED_Q_LINETABLE[LINE_L_FLINK]);
3903 4325 4 AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
3904 4326 4 AED_W_TOTALSIZE = .AED_C_FIRSTLINE[LINE_Q_SIZE];
3905 4327 4 UNTIL .AED_L_LASTLINE[LINE_V_ENDACE]
3906 4328 4 DO
3907 4329 5 BEGIN
3908 4330 5 IF .AED_L_LASTLINE EQLA AED_T_CURLINE
3909 4331 5 THEN AED_C_LASTLINE = .AED_C_LASTLINE[LINE_L_FLINK];
3910 4332 5 AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
3911 4333 5 AED_W_TOTALSIZE = .AED_Q_TOTALSIZE + .AED_L_LASTLINE[LINE_W_SIZE];
3912 4334 5 END;
3913 4335 4 AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BINACE];
3914 4336 4 IF .AED_L_FLAGS[AED_V_PROMPT]
3915 4337 4 THEN
3916 4338 5 BEGIN
3917 4339 5 AED_L_FLAGS[AED_V_NOITEMSEL] = 1;
3918 4340 5 AED_SELECTFIELD (BUFFER_INDEX);
3919 4341 5 AED_B_COLUMN = .BUFFER_INDEX + 1;
3920 4342 5 END;
3921 4343 4 END;
3922 4344 4 AED_L_BEGINLINE = .AED_Q_LINETABLE[LINE_L_FLINK];
3923 4345 4 AED_B_SAVE_LIN = 1;
3924 4346 4 AED_B_SAVE_COL = .AED_B_COLUMN;
3925 4347 4 END;
3926 4348 4
3927 4349 4 ! Now repaint the display.
3928 4350 4
3929 4351 4 SCR$ERASE PAGE (1, 1);
3930 4352 4 SCR$SET_SCROLL (1, 20);
3931 4353 4 IF .AED_L_FLAGS[AED_V_VT5X] OR .AED_L_FLAGS[AED_V_VT1XX] ! Set up the scrolling region
3932 4354 4 THEN AED_PUTOUTPUT ($$DESCRIPTOR (%CHAR(AED_C_CHAR_ESC), '='));
3933 4355 4 TEMP_LINE = 1;
3934 4356 4 NEW_TEXT_LINE = .AED_L_BEGINLINE;
3935 4357 4 DO
3936 4358 5 BEGIN
3937 4359 5 SCR$SET_CURSOR (.TEMP_LINE, 1);
3938 4360 5 ECHO_DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
3939 4361 5 ECHO_DESC[DSC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
3940 4362 5 AED_PUTOUTPUT (ECHO_DESC);
3941 4363 5 TEMP_LINE = .TEMP_LINE + 1;
3942 4364 5 IF .NEW_TEXT_LINE[LINE_V_REPLACE]
3943 4365 5 THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
3944 4366 5 NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
3945 4367 5 END;
3946 4368 4 UNTIL (.TEMP_LINE GTR 20)
3947 4369 4 OR (.NEW_TEXT_LINE EQLA AED_Q_LINETABLE[LINE_L_FLINK]);
3948 4370 4 SCR$SET_CURSOR (.AED_B_SAVE_LIN, .AED_B_SAVE_COL);
3949 4371 4 AED_L_FLAGS[AED_V_GO[DRY]] = 0;
3950 4372 4 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
3951 4373 4 TERM_CHAR = 0;
3952 4374 4 RETURN 1;
3953 4375 4
3954 4376 1 END;

! End of routine ACT_REFRESH
```


PC	Op	Op2	Op3	Op4	Op5	Op6	Op7	Op8	Op9	Op10	Op11	Op12	Op13	Op14	Op15	Op16	Op17	Op18	Op19	Op20	Op21	Op22	Op23	Op24	Op25	Op26	Op27	Op28	Op29	Op30	Op31	Op32	Op33	Op34	Op35	Op36	Op37	Op38	Op39	Op40	Op41	Op42	Op43	Op44	Op45	Op46	Op47	Op48	Op49	Op50	Op51	Op52	Op53	Op54	Op55	Op56	Op57	Op58	Op59	Op60	Op61	Op62	Op63	Op64	Op65	Op66	Op67	Op68	Op69	Op70	Op71	Op72	Op73	Op74	Op75	Op76	Op77	Op78	Op79	Op80	Op81	Op82	Op83	Op84	Op85	Op86	Op87	Op88	Op89	Op90	Op91	Op92	Op93	Op94	Op95	Op96	Op97	Op98	Op99	Op100	Op101	Op102	Op103	Op104	Op105	Op106	Op107	Op108	Op109	Op110	Op111	Op112	Op113	Op114	Op115	Op116	Op117	Op118	Op119	Op120	Op121	Op122	Op123	Op124	Op125	Op126	Op127	Op128	Op129	Op130	Op131	Op132	Op133	Op134	Op135	Op136	Op137	Op138	Op139	Op140	Op141	Op142	Op143	Op144	Op145	Op146	Op147	Op148	Op149	Op150	Op151	Op152	Op153	Op154	Op155	Op156	Op157	Op158	Op159	Op160	Op161	Op162	Op163	Op164	Op165	Op166	Op167	Op168	Op169	Op170	Op171	Op172	Op173	Op174	Op175	Op176	Op177	Op178	Op179	Op180	Op181	Op182	Op183	Op184	Op185	Op186	Op187	Op188	Op189	Op190	Op191	Op192	Op193	Op194	Op195	Op196	Op197	Op198	Op199	Op200	Op201	Op202	Op203	Op204	Op205	Op206	Op207	Op208	Op209	Op210	Op211	Op212	Op213	Op214	Op215	Op216	Op217	Op218	Op219	Op220	Op221	Op222	Op223	Op224	Op225	Op226	Op227	Op228	Op229	Op230	Op231	Op232	Op233	Op234	Op235	Op236	Op237	Op238	Op239	Op240	Op241	Op242	Op243	Op244	Op245	Op246	Op247	Op248	Op249	Op250	Op251	Op252	Op253	Op254	Op255	Op256	Op257	Op258	Op259	Op260	Op261	Op262	Op263	Op264	Op265	Op266	Op267	Op268	Op269	Op270	Op271	Op272	Op273	Op274	Op275	Op276	Op277	Op278	Op279	Op280	Op281	Op282	Op283	Op284	Op285	Op286	Op287	Op288	Op289	Op290	Op291	Op292	Op293	Op294	Op295	Op296	Op297	Op298	Op299	Op300	Op301	Op302	Op303	Op304	Op305	Op306	Op307	Op308	Op309	Op310	Op311	Op312	Op313	Op314	Op315	Op316	Op317	Op318	Op319	Op320	Op321	Op322	Op323	Op324	Op325	Op326	Op327	Op328	Op329	Op330	Op331	Op332	Op333	Op334	Op335	Op336	Op337	Op338	Op339	Op340	Op341	Op342	Op343	Op344	Op345	Op346	Op347	Op348	Op349	Op350	Op351	Op352	Op353	Op354	Op355	Op356	Op357	Op358	Op359	Op360	Op361	Op362	Op363	Op364	Op365	Op366	Op367	Op368	Op369	Op370	Op371	Op372	Op373	Op374	Op375	Op376	Op377	Op378	Op379	Op380	Op381	Op382	Op383	Op384	Op385	Op386	Op387	Op388	Op389	Op390	Op391	Op392	Op393	Op394	Op395	Op396	Op397	Op398	Op399	Op400	Op401	Op402	Op403	Op404	Op405	Op406	Op407	Op408	Op409	Op410	Op411	Op412	Op413	Op414	Op415	Op416	Op417	Op418	Op419
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[illegible]

ACT_REFRESH - refresh the display

N 4
15-Sep-1984 23:47:14
14-Sep-1984 11:52:29VAX-11 Bliss-32 V4.0-742
[ACLEDT.SRC]AEDMAIN.B32;1Page 144
(31)

	0000'	CF	58	DO	0027E	29\$:	MOVL	VM STATUS, AED_L STATUS	
		33	CF	E8	00283		BLBS	AED_L STATUS, 32\$	4244
16	0000'	CF	03	E1	00288		BBC	#3, AED_L_FLAGS, 30\$	4247
			01	DD	0028E		PUSHL	#1	
	00000000G	00	15	DD	00290		PUSHL	#21	
			02	FB	00292		CALLS	#2, SCR\$ERASE_PAGE	
			01	DD	00299		PUSHL	#1	
	00000000G	00	15	DD	0029B		PUSHL	#21	
			02	FB	0029D		CALLS	#2, SCR\$SET_CURSOR	
	00000000G	00	0000'	CF	DD 002A4	30\$:	PUSHL	AED_L STATUS	
03	00000000G	00	01	FB	002A8		CALLS	#1, LTB\$SIGNAL	
	0000'	CF	03	E0	002AF		BBS	#3, AED_L_FLAGS, 31\$	
			FF2C	31	002B5		BRW	22\$	
			FF18	31	002B8	31\$:	BRW	21\$	
	08	58	10	AE	DO 002BB	32\$:	MOVL	NEW TEXT_LINE, R8	4253
	OC	A8	57	B0	002BF		MOVW	LINE_SEG_SIZE, 8(R8)	
14	A8	A8	OC	AE	DO 002C3		MOVL	ACE_NEWADDR, 12(R8)	4254
	0000'	6A	56	28	002C8		MOVC3	ACE_TEXT_SIZE, (FIRST_CHAR), 20(R8)	4255
		DF	68	0E	002CD		INSQUE	(R8), @AED_Q LINETABLE+4	4256
			0000'	CF	D5 002D2		TSTL	AED_L_FIRSTLINE	4257
				06	12 002D6		BNEQ	33\$	
	0000'	CF	10	AE	DO 002D8		MOVL	NEW TEXT_LINE, AED_L_FIRSTLINE	
	0000'	CF	10	AE	DO 002DE	33\$:	MOVL	NEW TEXT_LINE, AED_L_LASTLINE	4258
	5A		01	AB	9E 002E4		MOVAB	1(RT1), FIRST_CHAR	4259
52	56		57	C3	002E8		SUBL3	LINE_SEG_SIZE, ACE_TEXT_SIZE, R2	4260
	56		FF	A2	9E 002EC		MOVAB	-1(R2), ACE_TEXT_SIZE	
			FF55	31	002F0		BRW	26\$	4238
			56	D5	002F3	34\$:	TSTL	ACE_TEXT_SIZE	4262
			03	14	002F5		BGTR	35\$	
			00C6	31	002F7		BRW	44\$	
			10	AE	9F 002FA	35\$:	PUSHAB	NEW TEXT LINE	4266
	04	52	14	A6	9E 002FD		MOVAB	20(R6), R2	
		AE	52	DO	00301		MOVL	R2, 4(SP)	
	00000000G	00	04	AE	9F 00305		PUSHAB	4(SP)	
			02	FB	00308		CALLS	#2, LIB\$GET_VM	
			50	DO	0030F		MOVL	R0, VM STATUS	
			58	E9	00312		BLBC	VM STATUS, 36\$	
52	00	6E	00	2C	00315		MOVC5	#0, (SP), #0, R2, @NEW_TEXT_LINE	
			10	BE	0031A				
	0000'	CF	58	DO	0031C	36\$:	MOVL	VM STATUS, AED_L STATUS	
	71		0000'	CF	E8 00321		BLBS	AED_L STATUS, 42\$	4267
16	0000'	CF	03	E1	00326		BBC	#3, AED_L_FLAGS, 37\$	4270
			01	DD	0032C		PUSHL	#1	
			15	DD	0032E		PUSHL	#21	
	00000000G	00	02	FB	00330		CALLS	#2, SCR\$ERASE_PAGE	
			01	DD	00337		PUSHL	#1	
			15	DD	00339		PUSHL	#21	
	00000000G	00	02	FB	0033B		CALLS	#2, SCR\$SET_CURSOR	
			0000'	CF	DD 00342	37\$:	PUSHL	AED_L STATUS	
	00000000G	00	01	FB	00346		CALLS	#1, LTB\$SIGNAL	
11	0000'	CF	03	E1	0034D		BBC	#3, AED_L_FLAGS, 39\$	
	7E		0000'	CF	9A 00353	38\$:	MOVZBL	AED_B_COLUMN, -(SP)	
	7E		0000'	CF	9A 00358		MOVZBL	AED_B_LINE, -(SP)	
	00000000G	00	02	FB	0035D		CALLS	#2, SCR\$SET_CURSOR	
			0000'	CF	DO 00364	39\$:	MOVL	AED_L STATUS, R0	
			50	93	00369		BITB	R0, #7	
	07		13	13	0036C		BEQL	41\$	

51		50	03	00	EF	0036E	EXTZV	#0, #3, R0, R1	:
51	0000'	CF	03	00	ED	00373	CMPZV	#0, #3, AED_L_WORSTERR, R1	:
				05	18	0037A	BGEQ	41\$:
	0000'	CF		50	D0	0037C	40\$:	MOVL	R0, AED_L_WORSTERR
	0000'	CF		8F	AA	00381	41\$:	BICW2	#8200, AED_L_FLAGS+1
				94	00388			CLRB	TERM CHAR
50	0000'	CF	10000000	8F	C9	0038C	BISL3	#268435456, AED_L_WORSTERR, R0	4272
				04	00396			RET	4273
				58	10	AE	D0	00397	42\$:
	08	A8		56	B0	0039B	MOVL	NEW_TEXT_LINE, R8	4276
	OC	A8	OC	AE	D0	0039F	MOVW	ACE_TEXT_SIZE, 8(R8)	
14	A8	6A		56	28	003A4	MOVL	ACE_NEWADDR, 12(R8)	4277
	0000'	DF		68	0E	003A9	MOVW	ACE_NEWADDR, 12(R8)	4278
				CF	D5	003AE	INSQUE	ACE_TEXT_SIZE, (FIRST CHAR), 20(R8)	4279
				06	12	003B2	TSTL	AED_L_FIRSTLINE	4280
	0000'	CF	10	AE	D0	003B4	BNEQ	43\$	
	0000'	CF	10	AE	D0	003BA	43\$:	MOVL	NEW_TEXT_LINE, AED_L_FIRSTLINE
	51	0000'		CF	D0	003C0	44\$:	MOVL	NEW_TEXT_LINE, AED_L_LASTLINE
	OA	A1		01	88	003C5	MOVL	AED_L_FIRSTLINE, RT	4281
27	03	A9		02	E0	003C9	BISB2	#1, 10(R1)	4283
		50	01	A9	9A	003CE	BBS	#2, 3(ACE POINTER), 45\$	4284
		01		50	91	003D2	MOVZBL	1(ACE POINTER), R0	4285
				22	13	003D5	CMPB	R0, #1	
				50	91	003D7	BEQL	46\$	4286
				1D	13	003DA	CMPB	R0, #2	
				50	91	003DC	BEQL	46\$	4287
				18	13	003DF	CMPB	R0, #3	
				50	91	003E1	BEQL	46\$	4288
				13	13	003E4	CMPB	R0, #4	
				50	91	003E6	BEQL	46\$	4289
				0E	13	003E9	CMPB	R0, #5	
				50	91	003EB	BEQL	46\$	4290
				09	13	003EE	CMPB	R0, #6	
				50	91	003F0	BEQL	46\$	4291
				04	13	003F3	CMPB	R0, #9	
	OA	A1		10	88	003F5	45\$:	BEQL	46\$
	50	0000'		CF	D0	003F9	46\$:	BISB2	#16, 10(R1)
	OA	A0		02	88	003FE	MOVL	AED_L_LASTLINE, R0	4292
	50			69	9A	00402	BISB2	#2, 10(R0)	4293
	59			50	C0	00405	MOVZBL	(ACE POINTER), R0	4294
				FD5A	31	00408	ADDL2	R0, ACE_POINTER	
				CF	9F	0040B	BRW	16\$	4210
	04	AE	0200	8F	3C	0040F	47\$:	PUSHAB	AED_A_ACLBUFFER
			04	AE	9F	00415	MOVZWL	#512, 4(SP)	4297
	00000000G	00		02	FB	00418	PUSHAB	4(SP)	
		50	0000'	CF	9E	0041F	CALLS	#2, LIB\$FREE VM	
		50	0000'	CF	D1	00424	MOVAB	AED_Q_LINETABLE, R0	4302
				3E	12	00429	CMPL	AED_Q_LINETABLE, R0	
	0000'	CF	4020	8F	A8	0042B	BNEQ	48\$	
			0000'	CF	B4	00432	BISW2	#16416, AED_L_FLAGS	4306
			0000'	CF	B4	00436	CLRW	SEGMENT SIZE	4307
	0000'	DF	0000'	CF	0E	0043A	CLRW	AED_W_TOTALSIZE	
		50	0000'	CF	9E	00441	INSQUE	AED-T_CURLINE, @AED_Q_LINETABLE+4	4308
	0000'	CF		50	D0	00446	MOVAB	AED-T_CURLINE, R0	4309
	0000'	CF		50	D0	0044B	MOVL	R0, AED_L_LASTLINE	
	OA	A0		01	B0	00450	MOVL	R0, AED_L_FIRSTLINE	
			0000'	CF	D4	00454	MOVW	#1, 10(R0)	4310
							CLRL	AED_L_CURACE	4311

			0000'	CF	95	00458	TSTB	AED_L_FLAGS+1	4312		
				6C	18	0045C	BGEQ	52\$			
			0000'	CF	94	0045E	CLRB	AED_B_ACETYPE	4315		
		0000'	CF	08	8A	00462	BICB2	#8, AED_L_FLAGS+2	4316		
				68	11	00467	BRB	53\$	4317		
			0000'	CF	DD	00469	48\$:	PUSHL	AED_Q_LINETABLE	4323	
		0000G	CF	01	FB	0046D	CALLS	#1, AED_COPSEGMENT			
		0000'	CF	0E	00472	INSQUE	AED_T_CURLINE, AED_Q_LINETABLE	4324			
			50	0000'	CF	9E	00479	MOVAB	AED_T_CURLINE, R0	4325	
		0000'	CF	50	DD	0047E	MOVL	R0, AED_L_LASTLINE			
		0000'	CF	50	DD	00483	MOVL	R0, AED_L_FIRSTLINE			
			51	0000'	CF	DD	00488	MOVL	AED_L_FIRSTLINE, R1	4326	
		0000'	CF	08	A1	80	0048D	MOVW	8(RT), AED_W_TOTALSIZE		
			50	0000'	CF	DD	00493	MOVL	AED_L_LASTLINE, R0	4327	
23		0A	A0	01	E0	00498	49\$:	BBS	#1, 10(R0), 51\$		
			52	0000'	CF	9E	0049D	MOVAB	AED_T_CURLINE, R2	4330	
			52		50	D1	004A2	CMPL	R0, R2		
					05	12	004A5	BNEQ	50\$		
		0000'	CF	60	DD	004A7	MOVL	(R0), AED_L_LASTLINE	4331		
		0000'	CF	0000'	DF	DD	004AC	50\$:	MOVL	AED_L_LASTLINE, AED_L_LASTLINE	4332
			50	0000'	CF	DD	004B3	MOVL	AED_L_LASTLINE, R0	4333	
		0000'	CF	08	A0	A0	004B8	ADDW2	8(R0), AED_W_TOTALSIZE		
					D8	11	004BE	BRB	49\$	4327	
		0000'	CF	0C	A1	DD	004C0	51\$:	MOVL	12(R1), AED_L_CURACE	4335
			0000'	CF	95	004C6	TSTB	AED_L_FLAGS+1	4336		
					16	18	004CA	52\$:	BGEQ	54\$	
		0000'	CF	08	88	004CC	BISB2	#8, AED_L_FLAGS+2	4339		
			0000'	CF	9F	004D1	53\$:	PUSHAB	BUFFER INDEX	4340	
		0000G	CF	01	FB	004D5	CALLS	#1, AED_SELECTFIELD			
0000'	CF	0000'	CF	01	81	004DA	ADDB3	#1, BUFFER INDEX, AED_B_COLUMN	4341		
		0000'	CF	0000'	CF	DD	004E2	54\$:	MOVL	AED_Q_LINETABLE, AED_C_BEGINLINE	4344
			CF	01	90	004E9	MOVB	#1, AED_B_SAVE_LIN	4345		
		0000'	CF	0000'	CF	90	004EE	MOVB	AED_B_COLUMN, AED_B_SAVE_COL	4346	
					01	DD	004F5	55\$:	PUSHL	#1	4351
					01	DD	004F7	PUSHL	#1		
		00000000G	00		02	FB	004F9	CALLS	#2, SCR\$ERASE_PAGE		
					14	DD	00500	PUSHL	#20	4352	
					01	DD	00502	PUSHL	#1		
		00000000G	00		02	FB	00504	CALLS	#2, SCR\$SET_SCROLL		
			06	0000'	CF	E8	0050B	BLBS	AED_L_FLAGS, 56\$	4353	
09		0000'	CF	01	E1	00510	BBC	#1, AED_L_FLAGS, 57\$			
				0000'	CF	9F	00516	56\$:	PUSHAB	P.AAG	4354
		0000G	CF	01	FB	0051A	CALLS	#1, AED_PUTOUTPUT			
		0000'	CF	01	DD	0051F	57\$:	MOVL	#1, TEMP_LINE	4355	
			AE	0000'	CF	DD	00524	MOVL	AED_L_BEGINLINE, NEW_TEXT_LINE	4356	
		10	53	0000'	CF	DD	0052A	MOVL	TEMP_LINE, R3	4359	
					01	DD	0052F	58\$:	PUSHL	#1	
					53	DD	00531	PUSHL	R3		
		00000000G	00		02	FB	00533	CALLS	#2, SCR\$SET_CURSOR		
			52	10	AE	DD	0053A	MOVL	NEW_TEXT_LINE, R2	4360	
		0000'	CF	08	A2	80	0053E	MOVW	8(R2), ECHO_DESC		
		0000'	CF	14	A2	9E	00544	MOVAB	20(R2), ECHO_DESC+4	4361	
				0000'	CF	9F	0054A	PUSHAB	ECHO_DESC	4362	
		0000G	CF	01	FB	0054E	CALLS	#1, AED_PUTOUTPUT			
				0000'	CF	D6	00553	INCL	TEMP_LINE	4363	
04		0A	A2	03	E1	00557	BBC	#3, 10(R2), 59\$	4364		
		10	AE	62	DD	0055C	MOVL	(R2), NEW_TEXT_LINE	4365		

AED\$MAIN
V04-000

ACT_REFRESH - refresh the display

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10	AE	10	BE	D0	00560	59\$:	MOVL	@NEW_TEXT_LINE, NEW_TEXT_LINE	:	4366
	53	0000'	CF	D0	00565		MOVL	TEMP_LINE, R3	:	4368
	14		53	D1	0056A		CMPL	R3, #20	:	
			0B	14	0056D		BGTR	60\$:	
	50	0000'	CF	9E	0056F		MOVAB	AED_Q LINETABLE, R0	:	4369
	50	10	AE	D1	00574		CMPL	NEW_TEXT_LINE, R0	:	
			B5	12	00578		BNEQ	58\$:	
	7E	0000'	CF	9A	0057A	60\$:	MOVZBL	AED_B_SAVE_COL, -(SP)	:	4370
	7E	0000'	CF	9A	0057F		MOVZBL	AED_B_SAVE_LIN, -(SP)	:	
00000000G	00		02	FB	00584		CALLS	#2, SCR\$SET_CURSOR	:	
0000'	CF	2008	8F	AA	0058B		BICW2	#8200, AED_C_FLAGS+1	:	4372
		0000'	CF	94	00592		CLRB	TERM_CHAR	:	4373
	50		01	D0	00596		MOVL	#1, R0	:	4374
			04	00599			RET		:	4376

; Routine Size: 1434 bytes, Routine Base: \$CODE\$ + 28CF

ACT_ENTER - enter the current ACE

```

: 3956 4377 1 %SBTTL 'ACT_ENTER - enter the current ACE'
: 3957 4378 1 ROUTINE ACT_ENTER =
: 3958 4379 1
: 3959 4380 1 ++
: 3960 4381 1
: 3961 4382 1 FUNCTIONAL DESCRIPTION:
: 3962 4383 1
: 3963 4384 1 This routine updates the object's ACL with the newly modified ACE.
: 3964 4385 1 The cursor is left positioned at the first character of the next
: 3965 4386 1 ACE.
: 3966 4387 1
: 3967 4388 1 CALLING SEQUENCE:
: 3968 4389 1 ACT_ENTER ()
: 3969 4390 1
: 3970 4391 1 INPUT PARAMETERS:
: 3971 4392 1 none
: 3972 4393 1
: 3973 4394 1 IMPLICIT INPUTS:
: 3974 4395 1 OWN storage
: 3975 4396 1
: 3976 4397 1 OUTPUT PARAMETERS:
: 3977 4398 1 none
: 3978 4399 1
: 3979 4400 1 IMPLICIT OUTPUTS:
: 3980 4401 1 none
: 3981 4402 1
: 3982 4403 1 ROUTINE VALUE:
: 3983 4404 1 1 if successful
: 3984 4405 1 error status otherwise
: 3985 4406 1
: 3986 4407 1 SIDE EFFECTS:
: 3987 4408 1 The line segment table is updated as necessary, ACE line pointers
: 3988 4409 1 are updated, and the object's ACL is updated as necessary.
: 3989 4410 1
: 3990 4411 1 --
: 3991 4412 1
: 3992 4413 2 BEGIN
: 3993 4414 2
: 3994 4415 2 BUFFER_INDEX = 0;
: 3995 4416 2 AED_B_COLUMN = 1;
: 3996 4417 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 3997 4418 2 NEW_TEXT_LINE = AED_REPSEGMENT ();
: 3998 4419 2 IF AED_L_FLAGS[AED_V_MODIFIED]
: 3999 4420 2 OR AED_L_FLAGS[AED_V_INSERT]
: 4000 4421 2 OR AED_L_FLAGS[AED_V_INSERTTEXT]
: 4001 4422 2 THEN
: 4002 4423 3 BEGIN
: 4003 4424 3 FINISH_ACE ();
: 4004 4425 3 AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
: 4005 4426 3 AED_COMPRESS ();
: 4006 4427 3 AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
: 4007 4428 3 IF NOT AED_L_STATUS
: 4008 4429 3 THEN
: 4009 4430 4 BEGIN
: 4010 4431 4 AED_L_FLAGS[AED_V_ACERROR] = 1;
: 4011 4432 4 AED_POSITION (.AED_L_FIRSTLINE);
: 4012 4433 4 AED_COPSEGMENT (.AED_L_FIRSTLINE);
```



```
4013 4434 4      INSQUE (AED T CURLINE[LINE L FLINK],
4014 4435 4          .AED C FIRSTLINE[LINE L BLINK]);
4015 4436 4      IF .AED L LASTLINE EQL .AED L FIRSTLINE
4016 4437 4      THEN AED C LASTLINE = AED T CURLINE;
4017 4438 4      IF .AED C BEGINLINE EQL .AED L FIRSTLINE
4018 4439 4      THEN AED C BEGINLINE = AED T CURLINE;
4019 4440 4      AED L FIRSTLINE = AED T CURLINE;
4020 4441 4      IF .AED L FIRSTLINE NEQ .AED L LASTLINE
4021 4442 4      AND .AED C_FLAGS[AED V_ENDACL]
4022 4443 4      THEN AED L_FLAGS[AED V_ENDACL] = 0;
4023 4444 4      BUFFER INDEX = 0;
4024 4445 4      AED B COLUMN = 1;
4025 4446 4      AED SET CURSOR (.AED B LINE, .AED B COLUMN);
4026 4447 4      AED L_FLAGS[AED V_GOLDREY] = 0;
4027 4448 4      AED L_FLAGS[AED V_ACTIONKEY] = 0;
4028 4449 4      TERM CHAR = 0;
4029 4450 4      RETURN 1;
4030 4451 4      END;
4031 4452 3      AED L_FLAGS[AED V_MODIFIED] = AED L_FLAGS[AED V_INSERT] = 0;
4032 4453 3      END;
4033 4454 3
4034 4455 3      ! Set up the display for the next line.
4035 4456 3
4036 4457 2      AED_POSITION (.AED L LASTLINE[LINE L FLINK]);
4037 4458 2      IF .AED L_LASTLINE[LINE L FLINK] EQL AED Q_LINETABLE[LINE L FLINK]
4038 4459 2      THEN
4039 4460 3          BEGIN
4040 4461 3              AED L_FLAGS[AED V_ENDACL] = 1;
4041 4462 3              AED L_FLAGS[AED V_INSERTTEXT] = 1;
4042 4463 3              AED W_TOTALSIZE = SEGMENT SIZE = 0;
4043 4464 3              INSQUE (AED T CURLINE[LINE L FLINK],
4044 4465 3                  .AED Q_LINETABLE[LINE L BLINK]);
4045 4466 3              AED L_FIRSTLINE = AED L_LASTLINE = AED T CURLINE;
4046 4467 3              AED L_FIRSTLINE[LINE Q_FLAGS] = LINE_M_BEGINACE;
4047 4468 3              AED L_CURACE = 0;
4048 4469 3              IF .AED L_FLAGS[AED V_PROMPT]
4049 4470 3              THEN
4050 4471 4                  BEGIN
4051 4472 4                      AED B_ACETYPE = 0;
4052 4473 4                      AED L_FLAGS[AED V_NOITEMSEL] = 0;
4053 4474 4                      AED SELECTFIELD (BUFFER INDEX);
4054 4475 4                      ECHO_DESC[DSCSW_LENGTH] = .AED T_CURLINE[LINE W_SIZE];
4055 4476 4                      ECHO_DESC[DSCSA_POINTER] = AED T_CURLINE[LINE T_TEXT];
4056 4477 4                      SCR$SET CURSOR (.AED B LINE, 1);
4057 4478 4                      AED PUTOUTPUT (ECHO DESC);
4058 4479 4                      SCR$ERASE LINE (.AED B LINE, .SEGMENT_SIZE + 1);
4059 4480 4                      AED B COLUMN = .BUFFER_INDEX + 1;
4060 4481 4                      AED SET CURSOR (.AED B LINE, .AED B COLUMN);
4061 4482 4                      END;
4062 4483 3              END
4063 4484 3      ELSE
4064 4485 3          BEGIN
4065 4486 3              AED COPSEGMENT (.AED L_LASTLINE[LINE L FLINK]);
4066 4487 3              INSQUE (AED T CURLINE[LINE L FLINK], .AED L_LASTLINE[LINE L FLINK]);
4067 4488 3              AED L_FIRSTLINE = AED L_LASTLINE = AED T CURLINE;
4068 4489 3              AED W_TOTALSIZE = .AED C_FIRSTLINE[LINE Q_SIZE];
4069 4490 3              UNTIL .AED L_LASTLINE[LINE V_ENDACE]
```



```
! End of routine ACT_ENTER
```

001C 00000 ACT_ENTER:						
	54	0000'	CF 9E 00002	.WORD	Save R2,R3,R4	: 4378
	53	0000'	CF 9E 00007	MOVAB	BUFFER INDEX, R4	...
			64 D4 0000C	MOVAB	AED_L_FLAGS, R3	...
			01 90 0000E	CLRL	BUFFER_INDEX	: 4415
20	A3		08 8A 00012	MOVB	#1, AED_B_COLUMN	: 4416
01	A3		00 FB 00016	BICB2	#8, AED_L_FLAGS+1	: 4417
0000G	CF		50 D0 0001B	CALLS	#0, AED_REPSEGMENT	: 4418
18	A4		63 95 0001F	MOVL	R0, NEW_TEXT_LINE	...
			0D 19 00021	TSTB	AED_L_FLAGS	: 4419
			05 E0 00023	BLSS	1\$	...
08	A3		06 E0 00028	BBS	#5, AED_L_FLAGS+1, 1\$	: 4420
03	A3		0081 31 0002D	BBS	#6, AED_L_FLAGS+1, 1\$	: 4421
			00 FB 00030	BRW	6\$	...
0000V	CF		8F 8A 00035	CALLS	#0, FINISH_ACE	: 4424
01	A3	40	00 FB 0003A	BICB2	#64, AED_L_FLAGS+1	: 4425
0000G	CF		01 FB 00044	CALLS	#0, AED_COMPRESS	: 4426
	7E	02C4	50 D0 00049	MOVZWL	AED_W_TOTALSIZE, -(SP)	: 4427
0000G	CF		008C C3 E8 0004E	CALLS	#1, AED_UPDATEACL	...
008C	C3		8F 88 00053	MOVL	R0, AED_L_STATUS	...
	59	008C	A3 DD 00057	BLBS	AED_L_STATUS, 5\$	: 4428
	63	40	01 FB 0005A	BISB2	#64, AED_L_FLAGS	: 4431
		40	A3 DD 0005F	PUSHL	AED_L_FIRSTLINE	: 4432
0000G	CF			CALLS	#1, AED_POSITION	...
		40		PUSHL	AED_L_FIRSTLINE	: 4433

ACT_ENTER - enter the current ACE

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0000G	CF		01	FB	00062	CALLS	#1, AED COPSEGMENT	4435
	50	40	A3	D0	00067	MOVL	AED_L_FIRSTLINE, R0	4435
04	B0	00B0	C3	0E	0006B	INSQUE	AED_T_CURLINE, @4(R0)	4436
40	A3	44	A3	D1	00071	CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE	4436
			06	12	00076	BNEQ	2\$	4437
44	A3	00B0	C3	9E	00078	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	4437
40	A3	48	A3	D1	0007E	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	4438
			06	12	00083	BNEQ	3\$	4439
48	A3	00B0	C3	9E	00085	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	4439
40	A3	00B0	C3	9E	0008B	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	4440
44	A3	40	A3	D1	00091	CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE	4441
			07	13	00096	BEQL	4\$	4442
03	63		05	E1	00098	BBC	#5, AED_L_FLAGS, 4\$	4442
	63		20	8A	0009C	BICB2	#32, AED_C_FLAGS	4443
			64	D4	0009F	CLRL	BUFFER INDEX	4444
20	A3		01	90	000A1	MOVB	#1, AED_B_COLUMN	4445
	7E	20	A3	9A	000A5	MOVZBL	AED_B_COLUMN, -(SP)	4446
			0127	31	000A9	BRW	16\$	4446
	63	2080	8F	AA	000AC	BICW2	#8320, AED_L_FLAGS	4452
		44	B3	DD	000B1	PUSHL	@AED_L_LASTLINE	4457
0000G	CF		01	FB	000B4	CALLS	#1, AED POSITION	4458
	50	30	A3	9E	000B9	MOVAB	AED_Q_LINETABLE, R0	4458
	50	44	B3	D1	000BD	CMPL	@AED_C_LASTLINE, R0	4458
			03	13	000C1	BEQL	7\$	4458
			0082	31	000C3	BRW	9\$	4458
	63	4020	8F	A8	000C6	BISW2	#16416, AED_L_FLAGS	4462
		00B8	C3	B4	000CB	CLRW	SEGMENT_SIZE	4463
		02C4	C3	B4	000CF	CLRW	AED_W_TOTALSIZE	4463
34	B3	00B0	C3	0E	000D3	INSQUE	AED_T_CURLINE, @AED_Q_LINETABLE+4	4465
	50	00B0	C3	9E	000D9	MOVAB	AED_T_CURLINE, R0	4466
44	A3		50	D0	000DE	MOVL	R0, AED_L_LASTLINE	4466
40	A3		50	D0	000E2	MOVL	R0, AED_L_FIRSTLINE	4466
0A	A0		01	B0	000E6	MOVW	#1, 10(R0)	4467
		3C	A3	D4	000EA	CLRL	AED_L_CURACE	4468
		01	A3	95	000ED	TSTB	AED_L_FLAGS+1	4469
			54	18	000F0	BGEQ	8\$	4469
		00A8	C3	94	000F2	CLRB	AED_B_ACETYPE	4472
02	A3		08	8A	000F6	BICB2	#8, AED_L_FLAGS+2	4473
			54	DD	000FA	PUSHL	R4	4474
0000G	CF		01	FB	000FC	CALLS	#1, AED SELECTFIELD	4475
04	A4	00B8	C3	B0	00101	MOVW	AED_T_CURLINE+8, ECHO_DESC	4475
08	A4	00C4	C3	9E	00107	MOVAB	AED_T_CURLINE+20, ECHO_DESC+4	4476
			01	DD	0010D	PUSHL	#1	4477
	7E	24	A3	9A	0010F	MOVZBL	AED_B_LINE, -(SP)	4477
00000000G	00		02	FB	00113	CALLS	#2, SCR\$SET_CURSOR	4478
		04	A4	9F	0011A	PUSHAB	ECHO_DESC	4478
0000G	CF		01	FB	0011D	CALLS	#1, AED_PUTOUTPUT	4479
	7E	00B8	C3	3C	00122	MOVZWL	SEGMENT_SIZE, -(SP)	4479
			6E	D6	00127	INCL	(SP)	4479
	7E	24	A3	9A	00129	MOVZBL	AED_B_LINE, -(SP)	4479
00000000G	00		02	FB	0012D	CALLS	#2, SCR\$ERASE_LINE	4480
20	A3		01	81	00134	ADDB3	#1, BUFFER INDEX, AED_B_COLUMN	4480
	64	20	A3	9A	00139	MOVZBL	AED_B_COLUMN, -(SP)	4481
	7E	24	A3	9A	0013D	MOVZBL	AED_B_LINE, -(SP)	4481
0000G	CF		02	FB	00141	CALLS	#2, AED_SET_CURSOR	4481
			67	11	00146	BRB	13\$	4458
		44	B3	DD	00148	PUSHL	@AED_L_LASTLINE	4486

0000G	CF	01	FB	0014B	CALLS	#1, AED_COPSEGMENT	:	
44	B3	00B0	C3	0E 00150	INSQUE	AED_T_CURLINE, @AED_L_LASTLINE	:	4487
	50	00B0	C3	9E 00156	MOVAB	AED_T_CURLINE, R0	:	4488
44	A3		50	D0 0015B	MOVL	R0, AED_L_LASTLINE	:	
40	A3		50	D0 0015F	MOVL	R0, AED_L_FIRSTLINE	:	
	52	40	A3	D0 00163	MOVL	AED_L_FIRSTLINE, R2	:	4489
02C4	C3	08	A2	B0 00167	MOVW	8(R2), AED_W_TOTALSIZE	:	
	51	44	A3	D0 0016D	MOVL	AED_L_LASTLINE, R1	:	4490
1F	0A		01	E0 00171	BBS	#1, 10(R1), 12\$:	
	50	00B0	C3	9E 00176	MOVAB	AED_T_CURLINE, R0	:	4493
	50		51	D1 0017B	CMPL	R1, R0	:	
			04	12 0017E	BNEQ	11\$:	
44	A3		61	D0 00180	MOVL	(R1), AED_L_LASTLINE	:	4494
44	A3	44	B3	D0 00184	MOVL	@AED_L_LASTLINE, AED_L_LASTLINE	:	4495
	51	44	A3	D0 00189	MOVL	AED_L_LASTLINE, R1	:	4496
02C4	C3	08	A1	A0 0018D	ADDW2	8(R1), AED_W_TOTALSIZE	:	
			DC	11 00193	BRB	10\$	:	4490
3C	A3	0C	A2	D0 00195	MOVL	12(R2), AED_L_CURACE	:	4498
		01	A3	95 0019A	TSTB	AED_L_FLAGS+1	:	4499
			10	18 0019D	BGEQ	13\$:	
02	A3		08	88 0019F	BISB2	#8, AED_L_FLAGS+2	:	4502
			54	DD 001A3	PUSHL	R4	:	4503
0000G	CF		01	FB 001A5	CALLS	#1, AED_SELECTFIELD	:	
20	A3		01	81 001AA	ADDB3	#1, BUFFER_INDEX, AED_B_COLUMN	:	4504
	01		10	88 001AF	BISB2	#16, AED_L_FLAGS+1	:	4507
	50	00B8	C3	3C 001B3	MOVZWL	SEGMENT_SIZE, R0	:	4508
			50	D6 001B8	INCL	R0	:	
50	20	A3	00	ED 001BA	CMPZV	#0, #8, AED_B_COLUMN, R0	:	
			07	15 001C0	BLEQ	14\$:	
	64	00B8	C3	3C 001C2	MOVZWL	SEGMENT_SIZE, BUFFER_INDEX	:	4509
			06	11 001C7	BRB	15\$:	
	64	20	A3	9A 001C9	MOVZBL	AED_B_COLUMN, BUFFER_INDEX	:	4510
			64	D7 001CD	DECL	BUFFER_INDEX	:	
7E	64		01	C1 001CF	ADDL3	#1, BUFFER_INDEX, -(SP)	:	4511
	7E	24	A3	9A 001D3	MOVZBL	AED_B_LINE, -(SP)	:	
0000G	CF		02	FB 001D7	CALLS	#2, AED_SET_CURSOR	:	
01	A3	2008	8F	AA 001DC	BICW2	#8200, AED_L_FLAGS+1	:	4513
		28	A4	94 001E2	CLRB	TERM_CHAR	:	4514
	50		01	D0 001E5	MOVL	#1, R0	:	4515
			04	001E8	RET		:	4517

: Routine Size: 489 bytes, Routine Base: \$CODE\$ + 2E69

ACT_INSERT - insert an ACE

```
: 4098 4518 1 %SBTTL 'ACT_INSERT - insert an ACE'
: 4099 4519 1 ROUTINE ACT_INSERT =
: 4100 4520 1
: 4101 4521 1 |++
: 4102 4522 1
: 4103 4523 1 | FUNCTIONAL DESCRIPTION:
: 4104 4524 1
: 4105 4525 1 |     This routine is called when it is desired to insert a new ACE at
: 4106 4526 1 |     a random position in the ACL.
: 4107 4527 1
: 4108 4528 1 | CALLING SEQUENCE:
: 4109 4529 1 |     ACT_INSERT ()
: 4110 4530 1
: 4111 4531 1 | INPUT PARAMETERS:
: 4112 4532 1 |     none
: 4113 4533 1
: 4114 4534 1 | IMPLICIT INPUTS:
: 4115 4535 1 |     OWN storage
: 4116 4536 1
: 4117 4537 1 | OUTPUT PARAMETERS:
: 4118 4538 1 |     none
: 4119 4539 1
: 4120 4540 1 | IMPLICIT OUTPUTS:
: 4121 4541 1 |     none
: 4122 4542 1
: 4123 4543 1 | ROUTINE VALUE:
: 4124 4544 1 |     1 if successful
: 4125 4545 1 |     error status otherwise
: 4126 4546 1
: 4127 4547 1 | SIDE EFFECTS:
: 4128 4548 1 |     The line segment table is updated as necessary, ACE line pointers
: 4129 4549 1 |     are updated, and the object's ACL is updated as necessary.
: 4130 4550 1
: 4131 4551 1 | --
: 4132 4552 1
: 4133 4553 2 BEGIN
: 4134 4554 2
: 4135 4555 2 IF NOT .AED_L_FLAGS[AED_V_ENDACL]
: 4136 4556 2 AND NOT .AED_L_FLAGS[AED_V_INSERTTEXT]
: 4137 4557 2 AND NOT .AED_L_FLAGS[AED_V_INSERT]
: 4138 4558 2 THEN
: 4139 4559 3 BEGIN
: 4140 4560 3 NEW_TEXT_LINE = AED_REPSEGMENT ();
: 4141 4561 3 IF .AED_L_FLAGS[AED_V_MODIFIED]
: 4142 4562 3 THEN
: 4143 4563 4 BEGIN
: 4144 4564 4 FINISH_ACE ();
: 4145 4565 4 IF .AED_L_FLAGS[AED_V_PROMPT]
: 4146 4566 4 AND .AED_L_FLAGS[AED_V_FIRSTCHAR]
: 4147 4567 4 THEN
: 4148 4568 5 BEGIN
: 4149 4569 5 NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
: 4150 4570 5 AED_W_TOTALSIZE = 0;
: 4151 4571 4 END;
: 4152 4572 4 AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
: 4153 4573 4 IF .AED_W_TOTALSIZE EQL 0
: 4154 4574 4 THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_BLINK];
```



```
4155 4575 4 AED_COMPRESS ();
4156 4576 4 AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALLSIZE);
4157 4577 4 IF NOT .AED_L_STATUS
4158 4578 4 THEN
4159 4579 4 BEGIN
4160 4580 4 AED_L_FLAGS[AED_V_ACERROR] = 1;
4161 4581 4 AED_POSITION (.AED_L_FIRSTLINE);
4162 4582 4 AED_COPSEGMENT (.AED_L_FIRSTLINE);
4163 4583 4 INSQUE (AED_T_CURLINE[LINE_L_FLINK],
4164 4584 4 .AED_L_FIRSTLINE[LINE_L_BLINK]);
4165 4585 4 IF .AED_L_LASTLINE EQL .AED_L_FIRSTLINE
4166 4586 4 THEN AED_L_LASTLINE = AED_T_CURLINE;
4167 4587 4 IF .AED_L_BEGINLINE EQL .AED_L_FIRSTLINE
4168 4588 4 THEN AED_L_BEGINLINE = AED_T_CURLINE;
4169 4589 4 AED_L_FIRSTLINE = AED_T_CURLINE;
4170 4590 4 IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
4171 4591 4 AND .AED_L_FLAGS[AED_V_ENDACL]
4172 4592 4 THEN AED_L_FLAGS[AED_V_ENDACL] = 0;
4173 4593 4 BUFFER_INDEX = 0;
4174 4594 4 AED_B_COLUMN = 1;
4175 4595 4 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
4176 4596 4 AED_L_FLAGS[AED_V_GOLDREY] = 0;
4177 4597 4 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
4178 4598 4 TERM_CHAR = 0;
4179 4599 4 RETURN 1;
4180 4600 4 END;
4181 4601 4 AED_L_FLAGS[AED_V_MODIFIED] = AED_L_FLAGS[AED_V_INSERT] = 0;
4182 4602 4 END;
4183 4603 4 AED_COMPRESS ();
4184 4604 4 AED_POSITION (.AED_L_FIRSTLINE);
4185 4605 4 AED_L_CURACE = .AED_L_FIRSTLINE[LINE_L_BINACE];
4186 4606 4 AED_W_TOTALLSIZE = SEGMENT_SIZE = 0;
4187 4607 4 INSQUE (AED_T_CURLINE[LINE_L_FLINK], .AED_L_FIRSTLINE[LINE_L_BLINK]);
4188 4608 4 IF .AED_L_BEGINLINE EQL .AED_L_FIRSTLINE
4189 4609 4 THEN AED_L_BEGINLINE = AED_T_CURLINE[LINE_L_FLINK];
4190 4610 4 AED_L_FIRSTLINE = AED_L_LASTLINE = AED_T_CURLINE;
4191 4611 4 AED_L_FIRSTLINE[LINE_W_FLAGS] = LINE_M_BEGINACE;
4192 4612 4 AED_POSITION (AED_T_CURLINE);
4193 4613 4
4194 4614 4 ! Now repaint the display. This is done by either scrolling down and repainting
4195 4615 4 the first part of the display or repainting from the current position to the
4196 4616 4 end of the display (or the end of the ACL). This is necessary to echo the
4197 4617 4 text from the split portion of the line.
4198 4618 4
4199 4619 4 IF .AED_B_LINE LEQ 10
4200 4620 4 THEN
4201 4621 4 BEGIN
4202 4622 4 SCR$SET_CURSOR (1,1); ! **** TEMP ****
4203 4623 4 SCR$DOWN_SCROLL ();
4204 4624 4 NEW_TEXT_LINE = .AED_L_BEGINLINE;
4205 4625 4 INCR J FROM 1 TO .AED_B_LINE
4206 4626 4 DO
4207 4627 4 BEGIN
4208 4628 4 ECHO_DESC[DESC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
4209 4629 4 ECHO_DESC[DESC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
4210 4630 4 SCR$SET_CURSOR (J, 1);
4211 4631 4 AED_PUTOUTPUT (ECHO_DESC);
```



```
: 4212      4632 5      SCR$ERASE_LINE (.J, .ECHO_DESC[DSC$W_LENGTH] + 1);
: 4213      4633 5      NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_C_FLINK];
: 4214      4634 4      END;
: 4215      4635 4      ELSE
: 4216      4636 3      BEGIN
: 4217      4637 4      NEW_TEXT_LINE = AED_T_CURLINE;
: 4218      4638 4      INCR J FROM .AED_B_LINE TO 20
: 4219      4639 4      DO
: 4220      4640 4      BEGIN
: 4221      4641 5      ECHO_DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
: 4222      4642 5      ECHO_DESC[DSC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
: 4223      4643 5      SCR$SET_CURSOR (.J, 1);
: 4224      4644 5      AED_PUTOUTPUT (ECHO_DESC);
: 4225      4645 5      SCR$ERASE_LINE (.J, .ECHO_DESC[DSC$W_LENGTH] + 1);
: 4226      4646 5      NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_C_FLINK];
: 4227      4647 5      IF .NEW_TEXT_LINE EQ[A AED_Q_LINETABLE[LINE_L_FLINK] THEN EXITLOOP;
: 4228      4648 5      END;
: 4229      4649 4      END;
: 4230      4650 3      BUFFER_INDEX = 0;
: 4231      4651 3      AED_B_COLUMN = 1;
: 4232      4652 3      IF .AED_L_FLAGS[AED_V_PROMPT]
: 4233      4653 3      THEN
: 4234      4654 3      BEGIN
: 4235      4655 4      AED_B_ACETYPE = 0;
: 4236      4656 4      AED_L_FLAGS[AED_V_NOITEMSEL] = 0;
: 4237      4657 4      AED_SELECTFIELD (BUFFER_INDEX);
: 4238      4658 4      ECHO_DESC[DSC$W_LENGTH] = .AED_T_CURLINE[LINE_W_SIZE];
: 4239      4659 4      ECHO_DESC[DSC$A_POINTER] = AED_T_CURLINE[LINE_T_TEXT];
: 4240      4660 4      SCR$SET_CURSOR (.AED_B_LINE, 1);
: 4241      4661 4      AED_PUTOUTPUT (ECHO_DESC);
: 4242      4662 4      SCR$ERASE_LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
: 4243      4663 4      AED_B_COLUMN = .BUFFER_INDEX + 1;
: 4244      4664 4      END;
: 4245      4665 3      AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 4246      4666 3      AED_L_FLAGS[AED_V_FIRSTCHAR] = 1;
: 4247      4667 3      AED_L_FLAGS[AED_V_INSERTTEXT] = 1;
: 4248      4668 3      AED_L_FLAGS[AED_V_INSERT] = 1;
: 4249      4669 3      END;
: 4250      4670 2      AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 4251      4671 2      AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 4252      4672 2      TERM_CHAR = 0;
: 4253      4673 2      RETURN 1;
: 4254      4674 2
: 4255      4675 2
: 4256      4676 1 END;
```

! End of routine ACT_INSERT

03FC 0000 ACT_INSERT:

59	0000G	CF	9E	00002	WORD	Save R2,R3,R4,R5,R6,R7,R8,R9
58	0000G	CF	9E	00007	MOVAB	AED_PUTOUTPUT, R9
57	00000000G	00	9E	0000C	MOVAB	AED_POSITION, R8
56	00000000G	00	9E	00013	MOVAB	SCR\$ERASE_LINE, R7
55	0000'	CF	9E	0001A	MOVAB	SCR\$SET_CURSOR, R6
						NEW_TEXT_LINE, R5

: 4519

03		54	0000'	CF	9E	0001F	MOVAB	AED_L_FLAGS, R4		
		64		05	E1	00024	BBC	#5, AED_L_FLAGS, 2\$		4555
			01FB	31	00028	1\$:	BRW	19\$		
FB	01	A4		06	E0	0002B	BBS	#6, AED_L_FLAGS+1, 1\$		4556
F3	01	A4		05	E0	00030	BBS	#5, AED_L_FLAGS+1, 1\$		4557
	0000G	CF		00	FB	00035	CALLS	#0, AED-REPSEGMENT		4560
		65		50	D0	0003A	MOVL	R0, NEW-TEXT_LINE		
				64	95	0003D	TSTB	AED_L_FLAGS		4561
				03	19	0003F	BLSS	3\$		
			00AB	31	00041		BRW	10\$		
	0000V	CF		00	FB	00044	CALLS	#0, FINISH_ACE		4564
			01	A4	95	00049	TSTB	AED_L_FLAGS+1		4565
				10	18	0004C	BGEQ	4\$		
OB	01	A4		04	E1	0004E	BBC	#4, AED_L_FLAGS+1, 4\$		4566
		50		65	D0	00053	MOVL	NEW-TEXT_LINE, R0		4569
	0A	A0		04	88	00056	BISB2	#4, -10(R0)		
			02C4	C4	B4	0005A	CLRW	AED_W_TOTALSIZE		4570
	01	A4		40	8F	8A	BICB2	#64, AED_L_FLAGS+1		4572
			02C4	C4	B5	00063	TSTW	AED_W_TOTALSIZE		4573
				07	12	00067	BNEQ	5\$		
		50		65	D0	00069	MOVL	NEW-TEXT_LINE, R0		4574
		65	04	A0	D0	0006C	MOVL	4(R0), NEW-TEXT_LINE		
	0000G	CF		00	FB	00070	CALLS	#0, AED_COMPRESS		4575
		7E	02C4	C4	3C	00075	MOVZWL	AED_W_TOTALSIZE, -(SP)		4576
	0000G	CF		01	FB	0007A	CALLS	#1, AED_UPDATEACL		
008C		C4		50	D0	0007F	MOVL	R0, AED_L_STATUS		
		61	008C	C4	E8	00084	BLBS	AED_L_STATUS, 9\$		4577
		64		40	8F	88	BISB2	#64, AED_L_FLAGS		4580
				40	A4	DD	PUSHL	AED_L_FIRSTLINE		4581
		68		01	FB	00090	CALLS	#1, AED_POSITION		
			40	A4	DD	00093	PUSHL	AED_L_FIRSTLINE		4582
	0000G	CF		01	FB	00096	CALLS	#1, AED_COPSEGMENT		
		50		40	A4	D0	MOVL	AED_L_FIRSTLINE, R0		4584
	04	B0	00B0	C4	0E	0009F	INSQUE	AED-T_CURLINE, @4(R0)		
	40	A4		44	A4	D1	CMPL	AED_L_LASTLINE, AED_L_FIRSTLINE		4585
				06	12	000AA	BNEQ	6\$		
	44	A4	00B0	C4	9E	000AC	MOVAB	AED-T_CURLINE, AED_L_LASTLINE		4586
	40	A4		48	A4	D1	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE		4587
				06	12	000B7	BNEQ	7\$		
	48	A4	00B0	C4	9E	000B9	MOVAB	AED-T_CURLINE, AED_L_BEGINLINE		4588
	40	A4	00B0	C4	9E	000BF	MOVAB	AED-T_CURLINE, AED_L_FIRSTLINE		4589
	44	A4		40	A4	D1	CMPL	AED_L_FIRSTLINE, AED_L_LASTLINE		4590
				07	13	000CA	BEQL	8\$		
03		64		05	E1	000CC	BBC	#5, AED_L_FLAGS, 8\$		4591
		64		20	8A	000D0	BICB2	#32, AED_L_FLAGS		4592
			E8	A5	D4	000D3	CLRL	BUFFER_INDEX		4593
	20	A4		01	90	000D6	MOVB	#1, AED_B_COLUMN		4594
		7E		20	A4	9A	MOVZBL	AED_B_COLUMN, -(SP)		4595
		7E		24	A4	9A	MOVZBL	AED-B_LINE, -(SP)		
	0000G	CF		02	FB	000E2	CALLS	#2, AED-SET_CURSOR		
			013C	31	000E7		BRW	19\$		4596
		64	2080	8F	AA	000EA	BICW2	#8320, AED_L_FLAGS		4601
	0000G	CF		00	FB	000EF	CALLS	#0, AED_COMPRESS		4603
				40	A4	DD	PUSHL	AED_L_FIRSTLINE		4604
		68		01	FB	000F7	CALLS	#1, AED_POSITION		
		50		40	A4	D0	MOVL	AED_L_FIRSTLINE, R0		4605
	3C	A4	0C	A0	D0	000FE	MOVL	12(R0), AED_L_CURACE		

		00B8	C4	B4	00103	CLRW	SEGMENT SIZE	4606
		02C4	C4	B4	00107	CLRW	AED_W_TOTALSIZE	
04	B0	00B0	C4	0E	0010B	INSQUE	AED_T_CURLINE, @4(R0)	4607
40	A4	48	A4	D1	00111	CMPL	AED_L_BEGINLINE, AED_L_FIRSTLINE	4608
			06	12	00116	BNEQ	11\$	
48	A4	00B0	C4	9E	00118	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	4609
	50	00B0	C4	9E	0011E	MOVAB	AED_T_CURLINE, R0	4610
44	A4		50	D0	00123	MOVL	R0, AED_L_LASTLINE	
40	A4		50	D0	00127	MOVL	R0, AED_L_FIRSTLINE	
0A	A0		01	B0	0012B	MOVW	#1, 10(R0)	4611
		00B0	C4	9F	0012F	PUSHAB	AED_T_CURLINE	4612
	68		01	FB	00133	CALLS	#1, AED_POSITION	
	0A	24	A4	91	00136	CMPB	AED_B_LINE, #10	4619
			48	1A	0013A	BGTRU	14\$	
			01	DD	0013C	PUSHL	#1	4622
			01	DD	0013E	PUSHL	#1	
	66		02	FB	00140	CALLS	#2, SCR\$SET_CURSOR	
00000000G	00		00	FB	00143	CALLS	#0, SCR\$DOWN_SCROLL	4623
	65	48	A4	D0	0014A	MOVL	AED_L_BEGINLINE, NEW_TEXT_LINE	4624
	53	24	A4	9A	0014E	MOVZBL	AED_B_LINE, R3	4625
			52	D4	00152	CLRL	J	
			28	11	00154	BRB	13\$	
	50		65	D0	00156	MOVL	NEW TEXT LINE, R0	4628
EC	A5	08	A0	B0	00159	MOVW	8(R0), ECHO_DESC	
FO	A5	14	A0	9E	0015E	MOVAB	20(R0), ECHO_DESC+4	4629
			01	DD	00163	PUSHL	#1	4630
			52	DD	00165	PUSHL	J	
	66		02	FB	00167	CALLS	#2, SCR\$SET_CURSOR	
		EC	A5	9F	0016A	PUSHAB	ECHO_DESC	4631
	69		01	FB	0016D	CALLS	#1, AED_PUTOUTPUT	
	7E	EC	A5	3C	00170	MOVZWL	ECHO_DESC, -(SP)	4632
			6E	D6	00174	INCL	(SP)	
			52	DD	00176	PUSHL	J	
	67		02	FB	00178	CALLS	#2, SCR\$ERASE LINE	
	75		95	D0	0017B	MOVL	@NEW TEXT LINE, NEW_TEXT_LINE	4633
D4	52		53	F3	0017E	AOBLEQ	R3, J, 12\$	4625
			45	11	00182	BRB	17\$	4619
	65	00B0	C4	9E	00184	MOVAB	AED_T_CURLINE, NEW_TEXT_LINE	4638
	52		65	D0	00189	MOVL	NEW_TEXT_LINE, R2	4642
	53	24	A4	9A	0018C	MOVZBL	AED_B_LINE, J	
			53	D7	00190	DECL	J	
			31	11	00192	BRB	16\$	
			A2	B0	00194	MOVW	8(R2), ECHO_DESC	
EC	A5	08	A2	9E	00199	MOVAB	20(R2), ECHO_DESC+4	4643
FO	A5	14	01	DD	0019E	PUSHL	#1	4644
			53	DD	001A0	PUSHL	J	
	66		02	FB	001A2	CALLS	#2, SCR\$SET_CURSOR	
		EC	A5	9F	001A5	PUSHAB	ECHO_DESC	4645
	69		01	FB	001A8	CALLS	#1, AED_PUTOUTPUT	
	7E	EC	A5	3C	001AB	MOVZWL	ECHO_DESC, -(SP)	4646
			6E	D6	001AF	INCL	(SP)	
			53	DD	001B1	PUSHL	J	
	67		02	FB	001B3	CALLS	#2, SCR\$ERASE LINE	
	75		95	D0	001B6	MOVL	@NEW TEXT LINE, NEW_TEXT_LINE	4647
	52		65	D0	001B9	MOVL	NEW TEXT LINE, R2	4648
	50	30	A4	9E	001BC	MOVAB	AED_Q LINETABLE, R0	
	50		52	D1	001C0	CMPL	R2, R0	

CB	53		04	13	001C3	BEQL	17\$		
		E8	14	F3	001C5	AOBLEQ	#20, J, 15\$	4639	
20	A4		A5	D4	001C9	CLRL	BUFFER INDEX	4651	
		01	01	90	001CC	MOVB	#1, AED_B_COLUMN	4652	
			A4	95	001D0	TSTB	AED_L_FLAGS+1	4653	
			3F	18	001D3	BGEQ	18\$		
		00A8	C4	94	001D5	CLRB	AED_B_ACETYPE	4656	
			08	8A	001D9	BICB2	#8, AED_L_FLAGS+2	4657	
		E8	A5	9F	001DD	PUSHAB	BUFFER INDEX	4658	
0000G	CF		01	FB	001E0	CALLS	#1, AED_SELECTFIELD		
EC	A5	00B8	C4	B0	001E5	MOVW	AED_T_CURLINE+8, ECHO_DESC	4659	
FO	A5	00C4	C4	9E	001EB	MOVAB	AED_T_CURLINE+20, ECHO_DESC+4	4660	
			01	DD	001F1	PUSHL	#1	4661	
	7E	24	A4	9A	001F3	MOVZBL	AED_B_LINE, -(SP)		
	66		02	FB	001F7	CALLS	#2, SCRSET_CURSOR		
		EC	A5	9F	001FA	PUSHAB	ECHO_DESC	4662	
	69		01	FB	001FD	CALLS	#1, AED_PUTOUTPUT		
	7E	00B8	C4	3C	00200	MOVZWL	SEGMENT_SIZE, -(SP)	4663	
			6E	D6	00205	INCL	(SP)		
	7E	24	A4	9A	00207	MOVZBL	AED_B_LINE, -(SP)		
20	A4	E8	02	FB	0020B	CALLS	#2, SCRERASE_LINE		
			01	81	0020E	ADDB3	#1, BUFFER INDEX, AED_B_COLUMN	4664	
	7E	20	A4	9A	00214	MOVZBL	AED_B_COLUMN, -(SP)	4666	
	7E	24	A4	9A	00218	MOVZBL	AED_B_LINE, -(SP)		
0000G	CF		02	FB	0021C	CALLS	#2, AED_SET_CURSOR		
01	A4	70	8F	88	00221	BISB2	#112, AED_L_FLAGS+1	4669	
01	A4	2008	8F	AA	00226	BICW2	#8200, AED_L_FLAGS+1	4672	
		10	A5	94	0022C	CLRB	TERM_CHAR	4673	
	50		01	D0	0022F	MOVL	#1, R0	4674	
			04	00	00232	RET		4676	

; Routine Size: 563 bytes, Routine Base: \$CODE\$ + 3052


```
4258 4677 1 XSBTTL 'ACT_EXIT - Leave the ACL editor'
4259 4678 1 ROUTINE ACT_EXIT (QUIT) =
4260 4679 1
4261 4680 1 ++
4262 4681 1
4263 4682 1 FUNCTIONAL DESCRIPTION:
4264 4683 1
4265 4684 1 This routine handles two ACL editor actions. If the action is a
4266 4685 1 QUIT, then any existing journal file is closed (but not deleted),
4267 4686 1 any unentered ACE is left untouched, and the session is terminated.
4268 4687 1
4269 4688 1 If the action is an EXIT, the object's ACL is updated to reflect the
4270 4689 1 current state. This done by first deleting any existing ACL, and
4271 4690 1 adding the current in core one.
4272 4691 1
4273 4692 1 CALLING SEQUENCE:
4274 4693 1 ACT_EXIT (ARG1)
4275 4694 1
4276 4695 1 INPUT PARAMETERS:
4277 4696 1 ARG1: 1 = terminate the session with the object's ACL untouched
4278 4697 1 0 = terminate the session and update the object's ACL
4279 4698 1
4280 4699 1 IMPLICIT INPUTS:
4281 4700 1 OWN storage
4282 4701 1
4283 4702 1 OUTPUT PARAMETERS:
4284 4703 1 none
4285 4704 1
4286 4705 1 IMPLICIT OUTPUTS:
4287 4706 1 none
4288 4707 1
4289 4708 1 ROUTINE VALUE:
4290 4709 1 1 if successful
4291 4710 1 error status otherwise
4292 4711 1
4293 4712 1 SIDE EFFECTS:
4294 4713 1 The line segment table is updated as necessary, ACE line pointers
4295 4714 1 are updated, and the object's ACL is updated as necessary.
4296 4715 1
4297 4716 1 --
4298 4717 1
4299 4718 2 BEGIN
4300 4719 2
4301 4720 2 LOCAL
4302 4721 2 ATR_ARGLIST : BLOCKVECTOR [2, ITM$$_ITEM, BYTE], ! ACL attributes
4303 4722 2 ACL_CONTEXT, ! ACL context for $CHANGE_ACL
4304 4723 2 DUMMY_ACE : $BLOCK [ACL$_DELACENT], ! Dummy ACE for delete
4305 4724 2 CURRENT_LINE : REF $BLOCK; ! Current line segment address
4306 4725 2
4307 4726 2 ! Determine if this is a QUIT or EXIT.
4308 4727 2
4309 4728 2 IF .QUIT
4310 4729 2 THEN
4311 4730 3 BEGIN
4312 4731 3 SIGNAL (AED$_NOCHANGE);
4313 4732 3 RETURN 0;
4314 4733 2 END;
```



```
: 4315      4734 2
: 4316      4735 2 NEW_TEXT_LINE = AED_REPSEGMENT ();
: 4317      4736 2 IF .AED_C_FLAGS[AED_V_MODIFIED]
: 4318      4737 2 OR .AED_L_FLAGS[AED_V_INSERT]
: 4319      4738 2 OR .AED_L_FLAGS[AED_V_INSERTTEXT]
: 4320      4739 2 THEN
: 4321      4740 2 BEGIN
: 4322      4741 2 FINISH_ACE ();
: 4323      4742 2 IF .AED_L_FLAGS[AED_V_PROMPT]
: 4324      4743 2 AND .AED_C_FLAGS[AED_V_FIRSTCHAR]
: 4325      4744 2 THEN
: 4326      4745 2 BEGIN
: 4327      4746 2 NEW_TEXT_LINE[LINE_V_DUMMY] = 1;
: 4328      4747 2 AED_W_TOTALSIZE = 0;
: 4329      4748 2 END;
: 4330      4749 2 AED_COMPRESS ();
: 4331      4750 2 AED_L_STATUS = AED_UPDATEACL (.AED_W_TOTALSIZE);
: 4332      4751 2 IF NOT .AED_L_STATUS
: 4333      4752 2 THEN
: 4334      4753 2 BEGIN
: 4335      4754 2 AED_L_FLAGS[AED_V_ACERROR] = 1;
: 4336      4755 2 AED_POSITION (.AED_L_FIRSTLINE);
: 4337      4756 2 AED_COSEGMENT (.AED_L_FIRSTLINE);
: 4338      4757 2 INSQUE (AED_T_CURLINE[LINE_L_FLINK], .AED_L_FIRSTLINE[LINE_L_BLINK]);
: 4339      4758 2 IF .AED_L_LASTLINE EQL .AED_C_FIRSTLINE
: 4340      4759 2 THEN AED_C_LASTLINE = AED_T_CURLINE;
: 4341      4760 2 IF .AED_C_BEGINLINE EQL .AED_L_FIRSTLINE
: 4342      4761 2 THEN AED_C_BEGINLINE = AED_T_CURLINE;
: 4343      4762 2 AED_L_FIRSTLINE = AED_T_CURLINE;
: 4344      4763 2 IF .AED_L_FIRSTLINE NEQ .AED_L_LASTLINE
: 4345      4764 2 AND .AED_C_FLAGS[AED_V_ENDACL]
: 4346      4765 2 THEN
: 4347      4766 2 BEGIN
: 4348      4767 2 AED_L_FLAGS[AED_V_ENDACL] = 0;
: 4349      4768 2 AED_L_FLAGS[AED_V_INSERTTEXT] = 0;
: 4350      4769 2 END;
: 4351      4770 2 BUFFER_INDEX = 0;
: 4352      4771 2 AED_B_COLUMN = 1;
: 4353      4772 2 AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
: 4354      4773 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 4355      4774 2 AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
: 4356      4775 2 TERM_CHAR = 0;
: 4357      4776 2 RETURN 1;
: 4358      4777 2 END;
: 4359      4778 2 END;
: 4360      4779 2 AED_L_FLAGS[AED_V_GOLDKEY] = 0;
: 4361      4780 2
: 4362      4781 2 ! Now for the fun part. Because the real ACL on the object hasn't been
: 4363      4782 2 ! touched, it is necessary to update it at this time. This is done by
: 4364      4783 2 ! first deleting the object's ACL, and then applying the ACL as modified
: 4365      4784 2 ! by the user.
: 4366      4785 2
: 4367      4786 2 CH$FILL (0, 2*ITM$S_ITEM, ATR_ARGLIST);
: 4368      4787 2 ACL_CONTEXT = 0;
: 4369      4788 2
: 4370      4789 2 ! Now delete the entire ACL. This will catch all but the protected ACEs.
: 4371      4790 2
```



```
: 4372      4791 2 ATR_ARGLIST[0, ITMSW_ITMCD] = ACL$C_DELETEACL;
: 4373      4792 2 ATR_ARGLIST[0, ITMSW_BUFSIZ] = 12;
: 4374      4793 2 ATR_ARGLIST[0, ITMSL_BUFADR] = DUMMY_ACE;
: 4375      4794 2 AED_L_STATUS = $CHANGE_ACL (CHAN = .AED_W_OBJCHAN,
: 4376      4795      OBJTYP = AED_C_OBJTYP,
: 4377      4796      OBJNAM = AED_Q_OBJNAM,
: 4378      4797      ITMLST = ATR_ARGLIST,
: 4379      4798      CONTXT = ACL_CONTEXT);
: 4380      4799 2 IF NOT .AED_L_STATUS
: 4381      4800 2 THEN
: 4382      4801 2 BEGIN
: 4383      4802 2   AED_B_OPTIONS[AED_V_KEEPPJNL] = 1;           ! Keep the journal file
: 4384      4803 2   RETURN 0;
: 4385      4804 2 END;
: 4386      4805 2
: 4387      4806 2 ! Now delete any protected ACEs remaining in the ACL.
: 4388      4807 2
: 4389      4808 2 WHILE 1
: 4390      4809 2 DO
: 4391      4810 2 BEGIN
: 4392      4811 2   ATR_ARGLIST[0, ITMSW_ITMCD] = ACL$C_READACE;
: 4393      4812 2   ATR_ARGLIST[0, ITMSW_BUFSIZ] = ACL$S_READACE;
: 4394      4813 2   ATR_ARGLIST[0, ITMSL_BUFADR] = DUMMY_ACE;
: 4395      4814 2   ACL_CONTEXT = 0;
: 4396      4815 2   AED_L_STATUS = $CHANGE_ACL (CHAN = .AED_W_OBJCHAN,
: 4397      4816 2       OBJTYP = AED_C_OBJTYP,
: 4398      4817 2       OBJNAM = AED_Q_OBJNAM,
: 4399      4818 2       ITMLST = ATR_ARGLIST,
: 4400      4819 2       CONTXT = ACL_CONTEXT);
: 4401      4820 2   IF NOT .AED_L_STATUS
: 4402      4821 2   THEN
: 4403      4822 2   BEGIN
: 4404      4823 2     IF .AED_L_STATUS EQL $$$_ACLEMPY
: 4405      4824 2     OR .AED_L_STATUS EQL $$$_NOMOREACE
: 4406      4825 2     THEN EXIT[00];
: 4407      4826 2     AED_B_OPTIONS[AED_V_KEEPPJNL] = 1;           ! Keep the journal file
: 4408      4827 2     SIGNAL (.AED_L_STATOS);
: 4409      4828 2     RETURN 0;
: 4410      4829 2   END;
: 4411      4830 2   ATR_ARGLIST[0, ITMSW_ITMCD] = ACL$C_DELALENT;
: 4412      4831 2   ATR_ARGLIST[0, ITMSW_BUFSIZ] = .DUMMY_ACE[ACESB_SIZE];
: 4413      4832 2   ATR_ARGLIST[0, ITMSL_BUFADR] = DUMMY_ACE;
: 4414      4833 2   AED_L_STATUS = $CHANGE_ACL (CHAN = .AED_W_OBJCHAN,
: 4415      4834 2       OBJTYP = AED_C_OBJTYP,
: 4416      4835 2       OBJNAM = AED_Q_OBJNAM,
: 4417      4836 2       ITMLST = ATR_ARGLIST,
: 4418      4837 2       CONTXT = ACL_CONTEXT);
: 4419      4838 2   IF NOT .AED_L_STATUS
: 4420      4839 2   THEN
: 4421      4840 2   BEGIN
: 4422      4841 2     AED_B_OPTIONS[AED_V_KEEPPJNL] = 1;           ! Keep the journal file
: 4423      4842 2     SIGNAL (.AED_L_STATOS);
: 4424      4843 2     RETURN 0;
: 4425      4844 2   END;
: 4426      4845 2 END;
: 4427      4846 2
: 4428      4847 2 ! Now that the object's original ACL has been removed, update the ACL with the
```



```
4429 4848 2 ! one modified by the user.
4430 4849 2
4431 4850 2 CURRENT_LINE = .AED_Q LINETABLE[LINE_L FLINK];
4432 4851 2 UNTIL .CURRENT_LINE EQL AED_Q LINETABLE[LINE_L FLINK]
4433 4852 2 DO
4434 4853 2 BEGIN
4435 4854 2 IF .CURRENT_LINE[LINE_V BEGINACE]
4436 4855 2 AND .CURRENT_LINE[LINE_L BINACE] NEQ 0
4437 4856 2 THEN
4438 4857 2 BEGIN
4439 4858 2 ATR_ARGLIST[0, ITMSW_ITMCO] = ACL$C ADDACLENT;
4440 4859 2 ATR_ARGLIST[0, ITMSW_BUFSIZ] = .SBBLOCK [.CURRENT_LINE[LINE_L BINACE], ACESB_SIZE];
4441 4860 2 ATR_ARGLIST[0, ITMSL_BUFADR] = .CURRENT_LINE[LINE_L BINACE];
4442 4861 2 ACL_CONTEXT = %X'00FFFFFF';
4443 4862 2 AED_L_STATUS = $CHANGE_ACL (CHAN = .AED_W OBJCHAN,
4444 4863 2 OBJTYP = AED_L OBJTYP,
4445 4864 2 OBJNAM = AED_Q OBJNAM,
4446 4865 2 ITMLST = ATR_ARGLIST,
4447 4866 2 CONTXT = ACL_CONTEXT);
4448 4867 2
4449 4868 2 IF NOT .AED_L_STATUS
4450 4869 2 THEN
4451 4870 2 BEGIN
4452 4871 2 AED_B OPTIONS[AED_V KEEPJNL] = 1; ! Keep the journal file
4453 4872 2 SIGNAL (.AED_L_STATUS);
4454 4873 2 RETURN 0;
4455 4874 2 END;
4456 4875 2 CURRENT_LINE = .CURRENT_LINE[LINE_L FLINK];
4457 4876 2 END;
4458 4877 2
4459 4878 2 SIGNAL (AED$_ACLUPDATED);
4460 4879 2
4461 4880 2 RETURN 0;
4462 4881 2
4463 4882 1 END; ! End of routine ACT_EXIT
```

OFFC 00000 ACT_EXIT:

5B	00000000G	8F	DO	00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	4678
5A	00000000G	00	9E	00009	MOVL	#AED\$ NOCHANGE, R11	
59	00000000G	00	9E	00010	MOVAB	SYSSCHANGE_ACL, R10	
58	00000000G	00	9E	00017	MOVAB	LIB\$SIGNAL, R9	
57	00000000G	00	9E	0001E	MOVAB	SCR\$ERASE_PAGE, R8	
56	00000000G	00	9E	0001E	MOVAB	SCR\$SET_CURSOR, R7	
5E	00000000G	CF	9E	00025	MOVAB	AED_L_FLAGS, R6	
41	FEE4	CE	9E	0002A	MOVAB	-284(SP), SP	
66	04	AC	E9	0002F	BLBC	QUIT, 4\$	4728
		03	E1	00033	BBC	#3, AED_L_FLAGS, 1\$	4731
		01	DD	00037	PUSHL	#1	
		15	DD	00039	PUSHL	#21	
68		02	FB	0003B	CALLS	#2, SCR\$ERASE_PAGE	
		01	DD	0003E	PUSHL	#1	
		15	DD	00040	PUSHL	#21	
67		02	FB	00042	CALLS	#2, SCR\$SET_CURSOR	

00000000*	8F	14	A6	03	00	ED	00061	3\$:	PUSHL	R11	..
					04	18	0006B		CALLS	#1, LIB\$SIGNAL	..
					027E	31	00071	3\$:	BBC	#3, AED_L_FLAGS, 2\$	..
					00	FB	00074	4\$:	MOVZBL	AED_B_COLUMN, -(SP)	..
					50	D0	00079		MOVZBL	AED_B_LINE, -(SP)	..
					66	95	0007E		CALLS	#2, SCR\$SET_CURSOR	..
					0D	19	00080		TSTL	#<AED\$_NOCHANGE&7>	..
					05	E0	00082		BEQL	3\$	..
					06	E0	00087		CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_NOCHANGE&7>	..
					00A6	31	0008C		BGEQ	3\$	..
					00	FB	0008F	5\$:	MOVL	R11, AED_L_WORSTERR	4732
					01	A6	95	00094	BRW	27\$	4735
					12	18	00097		CALLS	#0, AED_REPSEGMENT	..
					04	E1	00099		MOVL	R0, NEW_TEXT_LINE	4736
					CF	D0	0009E		TSTB	AED_L_FLAGS	..
					04	88	000A3		BLSS	5\$	..
					02C4	C6	000A7		BBS	#5, AED_L_FLAGS+1, 5\$	4737
					00	FB	000AB	6\$:	BBS	#6, AED_L_FLAGS+1, 5\$	4738
					01	FB	000B5		BRW	10\$	..
					50	D0	000BA		CALLS	#0, FINISH_ACE	4741
					01	FB	000B5		TSTB	AED_L_FLAGS+1	4742
					06	E8	000BF		BGEQ	6\$	..
					8F	88	000C4		BBC	#4, AED_L_FLAGS+1, 6\$	4743
					A6	DD	000C8		MOVL	NEW_TEXT_LINE, R0	4746
					01	FB	000CB		BISB2	#4, -10(R0)	..
					40	A6	DD	000D0	CLRW	AED_W_TOTALSIZE	4747
					01	FB	000D3		CALLS	#0, AED_COMPRESS	4749
					40	A6	D0	000D8	MOVZWL	AED_W_TOTALSIZE, -(SP)	4750
					06	12	000E7		CALLS	#1, AED_UPDATEACL	..
					06	12	000E9		MOVL	R0, AED_L_STATUS	..
					06	12	000F4		BLBS	AED_L_STATUS, 10\$	4751
					06	12	000F6		BISB2	#64, AED_L_FLAGS	4754
					06	12	000FC		PUSHL	AED_L_FIRSTLINE	4755
					09	13	00102		CALLS	#1, AED_POSITION	..
					05	E1	00109		PUSHL	AED_L_FIRSTLINE	4756
					8F	AA	0010D		CALLS	#1, AED_COPSEGMENT	..
					CF	D4	00112	9\$:	MOVL	AED_L_FIRSTLINE, R0	4757
					01	90	00116		INSQUE	AED_T_CURLINE, @4(R0)	..
					A6	9A	0011A		CMP	AED_L_LASTLINE, AED_L_FIRSTLINE	4758
					A6	9A	0011E		BNEQ	7\$	..
					02	FB	00122		MOVAB	AED_T_CURLINE, AED_L_LASTLINE	4759
					8F	AA	00127		CMP	AED_L_BEGINLINE, AED_L_FIRSTLINE	4760
					CF	94	0012D		BNEQ	8\$	..
					01	D0	00131		MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	4761
									MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	4762
									CMP	AED_L_FIRSTLINE, AED_L_LASTLINE	4763
									BEQL	9\$	..
									BBC	#5, AED_L_FLAGS, 9\$	4764
									BICW2	#16416, AED_L_FLAGS	4768
									CLRL	BUFFER_INDEX	4770
									MOVB	#1, AED_B_COLUMN	4771
									MOVZBL	AED_B_COLUMN, -(SP)	4772
									MOVZBL	AED_B_LINE, -(SP)	..
									CALLS	#2, AED_SET_CURSOR	..
									BICW2	#8200, AED_C_FLAGS+1	4774
									CLRB	TERM_CHAR	4775
									MOVL	#1, R0	4776

18	00	01	A6 6E	08 00	04 8A	00134 00135	10\$:	RET BICB2 MOVCS	#8, AED_L_FLAGS+1 #0, (SPT, #0, #24, ATR_ARGLIST	4779 4786
		E8		AD	2C	00139				
				6E	D4	00140		CLRL	ACL_CONTEXT	4787
		E8	AD 0006000C	8F	DO	00142		MOVL	#393228, ATR_ARGLIST	4792
		EC	AD	AE	9E	0014A		MOVAB	DUMMY_ACE, ATR_ARGLIST+4	4793
				5E	DD	0014F		PUSHL	SP	4798
				7E	7C	00151		CLRQ	-(SP)	
				AD	9F	00153		PUSHAB	ATR_ARGLIST	
				A6	9F	00156		PUSHAB	AED_Q_OBJNAM	
				A6	9F	00159		PUSHAB	AED_L_OBJTYP	
				A6	3C	0015C		MOVZWL	AED_W_OBJCHAN, -(SP)	
				07	FB	00160		CALLS	#7, SYSSCHANGE_ACL	
	008C			50	DO	00163		MOVL	RO, AED_L_STATUS	4799
				C6	E8	00168		BLBS	AED_L_STATUS, 11\$	4802
				08	88	0016D		BISB2	#8, AED_B_OPTIONS	4803
				17E	31	00171		BRW	27\$	4812
				8F	DO	00174	11\$:	MOVL	#590079, ATR_ARGLIST	4813
		E8	AD 000900FF	AE	9E	0017C		MOVAB	DUMMY_ACE, ATR_ARGLIST+4	4814
		EC	AD	6E	D4	00181		CLRL	ACL_CONTEXT	4819
				5E	DD	00183		PUSHL	SP	
				7E	7C	00185		CLRQ	-(SP)	
				AD	9F	00187		PUSHAB	ATR_ARGLIST	
				A6	9F	0018A		PUSHAB	AED_Q_OBJNAM	
				A6	9F	0018D		PUSHAB	AED_L_OBJTYP	
				A6	3C	00190		MOVZWL	AED_W_OBJCHAN, -(SP)	
				07	FB	00194		CALLS	#7, SYSSCHANGE_ACL	
	008C			50	DO	00197		MOVL	RO, AED_L_STATUS	4820
				50	E8	0019C		BLBS	RO, 13\$	4823
	000009D0			50	D1	0019F		CMPL	RO, #2512	4824
				66	13	001A6		BEQL	15\$	
	000009E0			50	D1	001A8		CMPL	RO, #2528	4826
				50	13	001AF		BEQL	15\$	4827
				08	88	001B1		BISB2	#8, AED_B_OPTIONS	
	03			03	E0	001B5		BBS	#3, AED_L_FLAGS, 12\$	
				00B7	31	001B9		BRW	20\$	
				00A6	31	001BC	12\$:	BRW	19\$	4830
				02	80	001BF	13\$:	MOVW	#2, ATR_ARGLIST+2	4831
		EA	AD	AE	9B	001C3		MOVZBW	DUMMY_ACE, ATR_ARGLIST	4832
		E8	AD	AE	9E	001C8		MOVAB	DUMMY_ACE, ATR_ARGLIST+4	4837
		EC	AD	5E	DD	001CD		PUSHL	SP	
				7E	7C	001CF		CLRQ	-(SP)	
				AD	9F	001D1		PUSHAB	ATR_ARGLIST	
				A6	9F	001D4		PUSHAB	AED_Q_OBJNAM	
				A6	9F	001D7		PUSHAB	AED_L_OBJTYP	
				A6	3C	001DA		MOVZWL	AED_W_OBJCHAN, -(SP)	
				07	FB	001DE		CALLS	#7, SYSSCHANGE_ACL	

		67		02	FB	001FE		CALLS	#2, SCR\$SET_CURSOR		
			008C	C6	DD	00201	14\$:	PUSHL	AED_L_STATUS		
		69		01	FB	00205		CALLS	#1, LTB\$SIGNAL		
72		66		03	E0	00208		BBS	#3, AED_L_FLAGS, 21\$		
				7B	11	0020C		BRB	22\$		
		52	30	A6	D0	0020E	15\$:	MOVL	AED_Q_LINETABLE, CURRENT_LINE	4850	
		50	30	A6	9E	00212	16\$:	MOVAB	AED_Q_LINETABLE, R0	4851	
		50		52	D1	00216		CMPL	CURRENT_LINE, R0		
				03	12	00219		BNEQ	17\$		
				008E	31	0021B		BRW	24\$		
		03	0A	A2	E8	0021E	17\$:	BLBS	10(CURRENT_LINE), 18\$	4854	
				0081	31	00222		BRW	23\$		
			0C	A2	D5	00225	18\$:	TSTL	12(CURRENT_LINE)	4855	
				7C	13	00228		BEQL	23\$		
EA	AD			01	B0	0022A		MOVW	#1, ATR_ARGLIST+2	4858	
E8	AD		0C	B2	9B	0022E		MOVZBW	12(CURRENT_LINE), ATR_ARGLIST	4859	
EC	AD		0C	A2	D0	00233		MOVL	12(CURRENT_LINE), ATR_ARGLIST+4	4860	
	6E	00FFFFFF		8F	D0	00238		MOVL	#16777215, -ACL_CONTEXT	4861	
				5E	DD	0023F		PUSHL	SP	4866	
				7E	7C	00241		CLRQ	-(SP)		
			E8	AD	9F	00243		PUSHAB	ATR_ARGLIST		
			0C	A6	9F	00246		PUSHAB	AED_Q_OBJNAM		
			0B	A6	9F	00249		PUSHAB	AED_L_OBJTYP		
		7E	78	A6	3C	0024C		MOVZWL	AED_W_OBJCHAN, -(SP)		
		6A		07	FB	00250		CALLS	#7, SYS\$CHANGE_ACL		
008C		C6		50	D0	00253		MOVL	R0, AED_L_STATUS		
	04	49	008C	C6	E8	00258		BLBS	AED_L_STATUS, 23\$	4867	
		A6		08	88	0025D		BISB2	#8, -AED_B_OPTIONS	4870	
OE		66		03	E1	00261		BBC	#3, AED_L_FLAGS, 20\$	4871	
				01	DD	00265	19\$:	PUSHL	#1		
				15	DD	00267		PUSHL	#21		
		68		02	FB	00269		CALLS	#2, SCR\$ERASE_PAGE		
				01	DD	0026C		PUSHL	#1		
				15	DD	0026E		PUSHL	#21		
		67		02	FB	00270		CALLS	#2, SCR\$SET_CURSOR		
			008C	C6	DD	00273	20\$:	PUSHL	AED_L_STATUS		
		69		01	FB	00277		CALLS	#1, LTB\$SIGNAL		
OB		66		03	E1	0027A		BBC	#3, AED_L_FLAGS, 22\$		
		7E	20	A6	9A	0027E	21\$:	MOVZBL	AED_B_COLUMN, -(SP)		
		7E	24	A6	9A	00282		MOVZBL	AED_B_LINE, -(SP)		
		67		02	FB	00286		CALLS	#2, SCR\$SET_CURSOR		
		50	008C	C6	D0	00289	22\$:	MOVL	AED_L_STATUS, R0		
		07		50	93	0028E		BITB	R0, -#7		
				5F	13	00291		BEQL	27\$		
51		03		00	EF	00293		EXTZV	#0, #3, R0, R1		
51	14	03		00	ED	00298		CMPZV	#0, #3, AED_L_WORSTERR, R1		
				52	18	0029E		BGEQ	27\$		
		A6	14	50	D0	002A0		MOVL	R0, AED_L_WORSTERR	4872	
				4C	11	002A4		BRB	27\$		
		52		62	D0	002A6	23\$:	MOVL	(CURRENT_LINE), CURRENT_LINE	4875	
				FF66	31	002A9		BRW	16\$	4851	
		66		03	E1	002AC	24\$:	BBC	#3, AED_L_FLAGS, 25\$	4878	
				01	DD	002B0		PUSHL	#1		
				15	DD	002B2		PUSHL	#21		
		68		02	FB	002B4		CALLS	#2, SCR\$ERASE_PAGE		
				01	DD	002B7		PUSHL	#1		
				15	DD	002B9		PUSHL	#21		

AED\$MAIN
V04-000

ACT_EXIT - leave the ACL editor

J 6
15-Sep-1984 23:47:14
14-Sep-1984 11:52:29

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[ACLEDT.SRC]AEDMAIN.B32;1

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			67		00000000G	02	FB	002BB		CALLS	#2, SCR\$SET CURSOR	:
			69			8F	DD	002BE	25\$:	PUSHL	#AED\$_ACLUPDATED	:
			66			01	FB	002C4		CALLS	#1, LTB\$SIGNAL	:
	0B		7E	20		03	E1	002C7		BBC	#3, AED_L_FLAGS, 26\$:
			7E	24		A6	9A	002CB		MOVZBL	AED_B_COLUMN, -(SP)	:
			67			A6	9A	002CF		MOVZBL	AED_B_LINE, -(SP)	:
					00000000*	02	FB	002D3		CALLS	#2, SCR\$SET CURSOR	:
						8F	D5	002D6	26\$:	TSTL	#<AED\$_ACLUPDATED&7>	:
00000000*	8F					14	13	002DC		BEQL	27\$:
	14	A6	03			00	ED	002DE		CMPZV	#0, #3, AED_L_WORSTERR, #<AED\$_ACLUPDATED&-7>	:
						08	18	002E8		BGEQ	27\$:
			14	A6	00000000G	8F	D0	002EA		MOVL	#AED\$_ACLUPDATED, AED_L_WORSTERR	:
						50	D4	002F2	27\$:	CLRL	R0	:
						04	002F4			RET		4882

; Routine Size: 757 bytes, Routine Base: \$CODE\$ + 3285

FINISH_ACE - Tie off the current ACE

```
4465 4883 1 %SBTTL 'FINISH_ACE - Tie off the current ACE'
4466 4884 1 ROUTINE FINISH_ACE : NOVALUE =
4467 4885 1
4468 4886 1 !++
4469 4887 1
4470 4888 1 FUNCTIONAL DESCRIPTION:
4471 4889 1
4472 4890 1 This routine ties off the current ACE. I.e., it adds a final right
4473 4891 1 paren if necessary.
4474 4892 1
4475 4893 1 CALLING SEQUENCE:
4476 4894 1 FINISH_ACE ()
4477 4895 1
4478 4896 1 INPUT PARAMETERS:
4479 4897 1 none
4480 4898 1
4481 4899 1 IMPLICIT INPUTS:
4482 4900 1 OWN storage
4483 4901 1
4484 4902 1 OUTPUT PARAMETERS:
4485 4903 1 none
4486 4904 1
4487 4905 1 IMPLICIT OUTPUTS:
4488 4906 1 none
4489 4907 1
4490 4908 1 ROUTINE VALUE:
4491 4909 1 none
4492 4910 1
4493 4911 1 SIDE EFFECTS:
4494 4912 1 none
4495 4913 1
4496 4914 1 !--
4497 4915 1
4498 4916 2 BEGIN
4499 4917 2
4500 4918 2 LOCAL
4501 4919 2 PREV_LINE : REF $BBLOCK; ! Address of the previous line
4502 4920 2
4503 4921 2 IF .AED_W_TOTALSIZE GTR 0 OR .SEGMENT_SIZE GTR 0
4504 4922 2 THEN
4505 4923 2 BEGIN
4506 4924 2 PREV_LINE = .AED_L_LASTLINE;
4507 4925 2 TEMP_LINE = .AED_B_LINE;
4508 4926 2 UNTIL .PREV_LINE[LINE_V_BEGINACE]
4509 4927 2 OR .PREV_LINE[LINE_W_SIZE] GTR 0
4510 4928 2 DO
4511 4929 2 BEGIN
4512 4930 2 PREV_LINE = .PREV_LINE[LINE_L_BLINK];
4513 4931 2 TEMP_LINE = .TEMP_LINE - 1;
4514 4932 2 END;
4515 4933 2 IF .PREV_LINE[LINE_W_SIZE] EQL 0 THEN RETURN;
4516 4934 2 AED_COPSEGMENT (.PREV_LINE);
4517 4935 2 INSQUE (AED_T_CURLINE[LINE_L_FLINK], .PREV_LINE[LINE_L_BLINK]);
4518 4936 2 IF .AED_L_BEGINLINE EQL .PREV_LINE
4519 4937 2 THEN AED_C_BEGINLINE = AED_T_CURLINE[LINE_L_FLINK];
4520 4938 2 IF .AED_C_FIRSTLINE EQL .PREV_LINE
4521 4939 2 THEN AED_C_FIRSTLINE = AED_T_CURLINE[LINE_L_FLINK];
```



```
4522 4940 3 IF .AED L_LASTLINE EQL .PREV LINE
4523 4941 3 THEN AED [ _LASTLINE = AED T_CURLINE[LINE L_FLINK];
4524 4942 3 IF .INPUT_BUFFER[.SEGMENT_SIZE - 1] EQL '+'
4525 4943 3 THEN
4526 4944 4 BEGIN
4527 4945 4 AED SET_CURSOR (.AED B_LINE, .SEGMENT_SIZE);
4528 4946 4 SEGMENT_SIZE = .SEGMENT_SIZE - 1;
4529 4947 3 END;
4530 4948 3 IF .INPUT_BUFFER[.SEGMENT_SIZE - 1] NEQ '%('
4531 4949 3 THEN
4532 4950 4 BEGIN
4533 4951 4 INPUT_BUFFER[.SEGMENT_SIZE] = ')';
4534 4952 4 SEGMENT_SIZE = .SEGMENT_SIZE + 1;
4535 4953 3 END;
4536 4954 3 AED L_LASTLINE[LINE_V_ENDACE] = 1;
4537 4955 3 NEW_TEXT_LINE = AED_REPSEGMENT ();
4538 4956 3 IF .TEMP_LINE GEQ 1
4539 4957 3 THEN
4540 4958 4 BEGIN
4541 4959 4 AED_POSITION (.NEW_TEXT_LINE);
4542 4960 4 AED SET_CURSOR (.AED B_LINE, .NEW_TEXT_LINE[LINE_W_SIZE]);
4543 4961 4 ECHO_DESC[DSCSW_LENGTH] = 1;
4544 4962 4 ECHO_DESC[DSCSA_POINTER] = VECTOR [NEW_TEXT_LINE[LINE_T_TEXT],
4545 4963 4 .NEW_TEXT_LINE[LINE_Q_SIZE] - 1; .BYTE];
4546 4964 4 AED_PUTOUTPUT (ECHO_DESC);
4547 4965 4 AED_POSITION (.AED [ _LASTLINE);
4548 4966 3 END;
4549 4967 2 END;
4550 4968 2
4551 4969 2 RETURN;
4552 4970 2
4553 4971 1 END;
```

! End of routine FINISH_ACE

001C 00000 FINISH_ACE:									
	54	0000'	CF	9E	00002	.WORD	Save R2,R3,R4	4884	
	53	0000'	CF	9E	00007	MOVAB	NEW_TEXT_LINE, R4		
		020C	C3	B5	0000C	MOVAB	SEGMENT_SIZE, R3		
			04	12	00010	TSTW	AED_W_TOTALSIZE	4921	
			63	B5	00012	BNEQ	1\$		
			1F	13	00014	TSTW	SEGMENT_SIZE		
	52	8C	A3	D0	00016	BEQL	4\$		
F4	A4	FF6C	C3	9A	0001A	MOVL	AED_L_LASTLINE, PREV_LINE	4924	
	0E	0A	A2	E8	00020	MOVZBL	AED_B_LINE, TEMP_LINE	4925	
		08	A2	B5	00024	BLBS	10(PREV_LINE), 3\$	4926	
			09	12	00027	TSTW	8(PREV_LINE)	4927	
	52	04	A2	D0	00029	BNEQ	3\$		
		F4	A4	D7	0002D	MOVL	4(PREV_LINE), PREV_LINE	4930	
			EE	11	00030	DECL	TEMP_LINE	4931	
		08	A2	B5	00032	BRB	2\$	4926	
			6A	13	00035	TSTW	8(PREV_LINE)	4933	
			52	DD	00037	BEQL	10\$		
0000G	CF		01	FB	00039	PUSHL	PREV_LINE	4934	
						CALLS	#1, AED_COPSEGMENT		

04	B2	F8	A3	0E	0003E	INSQUE	AED_T_CURLINE, @4(PREV_LINE)	4935
	52	90	A3	D1	00043	CMPL	AED_L_BEGINLINE, PREV_LINE	4936
			05	12	00047	BNEQ	5\$	
90	A3	F8	A3	9E	00049	MOVAB	AED_T_CURLINE, AED_L_BEGINLINE	4937
	52	88	A3	D1	0004E	CMPL	AED_L_FIRSTLINE, PREV_LINE	4938
			05	12	00052	BNEQ	6\$	
88	A3	F8	A3	9E	00054	MOVAB	AED_T_CURLINE, AED_L_FIRSTLINE	4939
	52	8C	A3	D1	00059	CMPL	AED_L_LASTLINE, PREV_LINE	4940
			05	12	0005D	BNEQ	7\$	
8C	A3	F8	A3	9E	0005F	MOVAB	AED_T_CURLINE, AED_L_LASTLINE	4941
	50		63	3C	00064	MOVZWL	SEGMENT_SIZE, R0	4942
	2B	0B	A340	91	00067	CMPL	INPUT_BUFFER-1[R0], #43	
			0F	12	0006C	BNEQ	8\$	
	7E		63	3C	0006E	MOVZWL	SEGMENT_SIZE, -(SP)	4945
	7E	FF6C	C3	9A	00071	MOVZBL	AED_B_LINE, -(SP)	
0000G	CF		02	FB	00076	CALLS	#2, AED_SET_CURSOR	
			63	B7	0007B	DECW	SEGMENT_SIZE	4946
	50		63	3C	0007D	MOVZWL	SEGMENT_SIZE, R0	4948
	29	0B	A340	91	00080	CMPL	INPUT_BUFFER-1[R0], #41	
			07	13	00085	BEQL	9\$	
0C	A340		29	90	00087	MOVB	#41, INPUT_BUFFER[R0]	4951
			63	B6	0008C	INCW	SEGMENT_SIZE	4952
	50	8C	A3	D0	0008E	MOVL	AED_L_LASTLINE, R0	4954
0A	A0		02	88	00092	BISB2	#2, -10(R0)	
0000G	CF		00	FB	00096	CALLS	#0, AED_REPSEGMENT	4955
	64		50	D0	0009B	MOVL	R0, NEW_TEXT_LINE	
		F4	A4	D5	0009E	TSTL	TEMP_LINE	4956
			39	15	000A1	BLEQ	11\$	
			64	DD	000A3	PUSHL	NEW_TEXT_LINE	4959
0000G	CF		01	FB	000A5	CALLS	#1, AED_POSITION	
	50		64	D0	000AA	MOVL	NEW_TEXT_LINE, R0	4960
	7E	08	A0	3C	000AD	MOVZWL	8(R0), -7SP	
	7E	FF6C	C3	9A	000B1	MOVZBL	AED_B_LINE, -(SP)	
0000G	CF		02	FB	000B6	CALLS	#2, AED_SET_CURSOR	
EC	A4		01	B0	000BB	MOVW	#1, ECHO_DESC	4961
	51		64	D0	000BF	MOVL	NEW_TEXT_LINE, R1	4962
	50	08	A1	3C	000C2	MOVZWL	8(R1), R0	4963
FO	A4	13	A140	9E	000C6	MOVAB	19(R1)[R0], ECHO_DESC+4	
		EC	A4	9F	000CC	PUSHAB	ECHO_DESC	4964
0000G	CF		01	FB	000CF	CALLS	#1, AED_PUTOUTPUT	
		8C	A3	DD	000D4	PUSHL	AED_L_LASTLINE	4965
0000G	CF		01	FB	000D7	CALLS	#1, AED_POSITION	
			04	000DC	11\$:	RET		4971

; Routine Size: 221 bytes, Routine Base: \$CODE\$ + 357A

; 4554 4972 1
; 4555 4973 1 END
; 4556 4974 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes								
AED_COMMON	1320	NOVEC,	WRT,	RD	NOEXE,NOSHR,	LCL,	REL,	OVR,NOPIC,ALIGN(0)		
\$OWNS	560	NOVEC,	WRT,	RD	NOEXE,NOSHR,	LCL,	REL,	CON,NOPIC,ALIGN(2)		
\$CODES	13911	NOVEC,NOWRT,		RD	EXE,NOSHR,	LCL,	REL,	CON,NOPIC,ALIGN(2)		
\$SPLITS	60	NOVEC,NOWRT,		RD	NOEXE,NOSHR,	LCL,	REL,	CON,NOPIC,ALIGN(2)		

Library Statistics					
File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	54	0	1000	00:01.8
_\$255\$DUA28:[SYSLIB]TPAMAC.L32;1	42	0	0	14	00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:AEDMAIN/OBJ=OBJ\$:AEDMAIN MSRC\$:AEDMAIN/UPDATE=(ENH\$:AEDMAIN)

Size: 13911 code + 1940 data bytes

Run Time: 03:15.4

Elapsed Time: 09:51.0

Lines/CPU Min: 1527

Lexemes/CPU-Min: 18458

Memory Used: 485 pages

Compilation Complete

0003 AH-BT13A-SE
VAX/VMS V4.0

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0004 AH-BT13A-SE
VAX/VMS V4.0

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AEDMESSAG
LIS

AEDPROMPT
LIS

SETACL
LIS

AEDSUBR
LIS